

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Houston

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TestAmerica Job ID: 600-111073-1

Client Project/Site: CB&I Federal Services LLC . . – Houston

For:

CB&I Federal Services LLC

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: CB&I Federal Services LLC
Project/Site: CB&I Federal Services LLC . . . Houston

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Laboratory: TestAmerica Houston

Narrative

Job Narrative 600-111073-1

Comments

No additional comments.

Receipt

The samples were received on 5/6/2015 4:56 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 24.9° C.

Except:

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

GC/MS VOA

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: FT 5180-05.06.2015 (600-111073-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following samples were diluted due to sample being a "sticky" material and not able to run under soil method: OT 25134-05.06.2015 (600-111073-3). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for 162047 recovered outside control limits for the following analyte: 4-Nitroaniline. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270C: The following sample was diluted due to the nature of the sample matrix: FT 5180-05.06.2015 (600-111073-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following samples was diluted due to the nature of the sample matrix: OT 25319-05.06.2015 (600-111073-2) and OT 25134-05.06.2015 (600-111073-3). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following samples required a dilution due to the nature of the sample matrix: OT 25319-05.06.2015 (600-111073-2) and OT 25134-05.06.2015 (600-111073-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) TX 1005: The following samples was diluted due to the nature of the sample matrix: OT 25319-05.06.2015 (600-111073-2) and OT 25134-05.06.2015 (600-111073-3). Elevated reporting limits (RLs) are provided.

Method(s) TX 1005: The following samples required a dilution due to the nature of the sample matrix: OT 25319-05.06.2015 (600-111073-2) and OT 25134-05.06.2015 (600-111073-3). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The method blank for 247638 contained sulfur above the method detection limit. This target analyte concentration in the method blank was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The leachate blank for Prep Batch 162014 contained Barium above the method detection limit. This target analyte

Case Narrative

Client: CB&I Federal Services LLC
Project/Site: CB&I Federal Services LLC . .– Houston

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Laboratory: TestAmerica Houston (Continued)

concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The method blank for Prep Batch 162094 contained Arsenic above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The leachate blank for Prep Batch 161929 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The leachate blank for Prep Batch 161930 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Geotechnical

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with 162047.

Method(s) 3546: Due to the matrix, the initial volume used for the following sample deviated from the standard procedure: OT 25134-05.06.2015 (600-111073-3). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3546: Due to the matrix, the following samples could not be concentrated to the final method required volume: OT 25319-05.06.2015 (600-111073-2) and OT 25134-05.06.2015 (600-111073-3). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Method Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PIT
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL HOU
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
6010B	Metals (ICP)	SW846	TAL NSH
7470A	Mercury (CVAA)	SW846	TAL HOU
7470A	Mercury in Liquid Waste (Manual Cold Vapor Technique)	SW846	TAL HOU
7471A	Mercury (CVAA)	SW846	TAL HOU
7.4.4	Reactive Sulfide	EPA	TAL HOU
9012	Cyanide, Reactive	SW846	TAL HOU
9020B	Organic Halides, Total (TOX)	SW846	TAL NSH
9023	Organic Halides, Extractable (EOX)	SW846	TAL CAN
9040B	Corrosivity as pH	SW846	TAL HOU
9045C	Corrosivity	SW846	TAL HOU
D1796	Water and Sediment in Fuel Oils	ASTM	TAL CC
D240-87	Heat of Combustion	ASTM	TAL HOU
D92	Flashpoint	ASTM	TAL HOU
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL HOU
SW846 Ch. 7	Ignitability	SW846	TAL HOU

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Sample Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-111073-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-111073-1	FT 5180-05.06.2015	Water	05/06/15 13:46	05/06/15 16:56
600-111073-2	OT 25319-05.06.2015	Solid	05/06/15 12:29	05/06/15 16:56
600-111073-3	OT 25134-05.06.2015	Solid	05/06/15 12:50	05/06/15 16:56

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Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: FT 5180-05.06.2015

Lab Sample ID: 600-111073-1

Matrix: Water

Date Collected: 05/06/15 13:46

Date Received: 05/06/15 16:56

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	0.0254		0.00500	0.00415	mg/L			05/15/15 13:54	5
Vinyl chloride	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
Bromomethane	0.00490	U	0.00500	0.00490	mg/L			05/15/15 13:54	5
Chloroethane	0.00380	U	0.00500	0.00380	mg/L			05/15/15 13:54	5
1,1-Dichloroethene	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
trans-1,2-Dichloroethene	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
Acetone	0.659		0.125	0.0500	mg/L			05/15/15 13:54	5
Carbon disulfide	0.00447 J		0.00500	0.00250	mg/L			05/15/15 13:54	5
Methylene Chloride	0.0150	U	0.0250	0.0150	mg/L			05/15/15 13:54	5
Vinyl acetate	0.0100	U	0.125	0.0100	mg/L			05/15/15 13:54	5
cis-1,2-Dichloroethene	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
1,2-Dichloroethene, Total	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
2-Butanone (MEK)	0.0446 J		0.125	0.0130	mg/L			05/15/15 13:54	5
Chlorobromomethane	0.00260	U	0.00500	0.00260	mg/L			05/15/15 13:54	5
Carbon tetrachloride	0.0259		0.00500	0.00250	mg/L			05/15/15 13:54	5
Benzene	0.00622		0.00500	0.00190	mg/L			05/15/15 13:54	5
1,2-Dichloroethane	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
Trichloroethene	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
1,1,1-Trichloroethane	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
1,1-Dichloroethane	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
1,2-Dichloropropane	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
Chloroform	0.439		0.00500	0.00300	mg/L			05/15/15 13:54	5
Bromodichloromethane	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
cis-1,3-Dichloropropene	0.00250	U	0.0250	0.00250	mg/L			05/15/15 13:54	5
4-Methyl-2-pentanone (MIBK)	0.0397 J		0.125	0.00900	mg/L			05/15/15 13:54	5
Toluene	0.0181		0.00500	0.00350	mg/L			05/15/15 13:54	5
trans-1,3-Dichloropropene	0.00250	U	0.0250	0.00250	mg/L			05/15/15 13:54	5
1,1,2-Trichloroethane	0.00527 J		0.0250	0.00250	mg/L			05/15/15 13:54	5
Tetrachloroethene	0.00290	U	0.00500	0.00290	mg/L			05/15/15 13:54	5
2-Hexanone	0.0155	U	0.125	0.0155	mg/L			05/15/15 13:54	5
Dibromochloromethane	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
Chlorobenzene	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
Ethylbenzene	0.00668		0.00500	0.00250	mg/L			05/15/15 13:54	5
m-Xylene & p-Xylene	0.0123 J		0.0250	0.00800	mg/L			05/15/15 13:54	5
Xylenes, Total	0.0184 J		0.0250	0.00300	mg/L			05/15/15 13:54	5
o-Xylene	0.00604 J		0.0250	0.00300	mg/L			05/15/15 13:54	5
Styrene	0.00500	U	0.00500	0.00500	mg/L			05/15/15 13:54	5
Bromoform	0.00355	U	0.0250	0.00355	mg/L			05/15/15 13:54	5
1,1,2,2-Tetrachloroethane	0.00250	U	0.00500	0.00250	mg/L			05/15/15 13:54	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		67 - 134					05/15/15 13:54	5
Dibromofluoromethane	104		81 - 121					05/15/15 13:54	5
Toluene-d8 (Surr)	100		80 - 120					05/15/15 13:54	5
4-Bromofluorobenzene	100		78 - 118					05/15/15 13:54	5

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0396	U	0.200	0.0396	mg/L			05/13/15 14:48	1
2-Butanone (MEK)	0.0434	U	0.200	0.0434	mg/L			05/13/15 14:48	1

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: FT 5180-05.06.2015

Lab Sample ID: 600-111073-1

Matrix: Water

Date Collected: 05/06/15 13:46

Date Received: 05/06/15 16:56

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.0433	U	0.200	0.0433	mg/L			05/13/15 14:48	1
Chlorobenzene	0.0210	U	0.200	0.0210	mg/L			05/13/15 14:48	1
Chloroform	1.23		0.200	0.0403	mg/L			05/13/15 14:48	1
1,2-Dichloroethane	0.0384	U	0.200	0.0384	mg/L			05/13/15 14:48	1
1,1-Dichloroethene	0.0426	U	0.200	0.0426	mg/L			05/13/15 14:48	1
Tetrachloroethylene	0.0330	U	0.200	0.0330	mg/L			05/13/15 14:48	1
Trichloroethylene	0.0320	U	0.200	0.0320	mg/L			05/13/15 14:48	1
Vinyl chloride	0.0516	U	0.200	0.0516	mg/L			05/13/15 14:48	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	117		80 - 120					05/13/15 14:48	1
Toluene-d8 (Surr)	102		80 - 120					05/13/15 14:48	1
4-Bromofluorobenzene (Surr)	90		75 - 120					05/13/15 14:48	1
1,2-Dichloroethane-d4 (Surr)	81		62 - 123					05/13/15 14:48	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.0114	U	0.0500	0.0114	mg/L			05/11/15 08:16	13
Acenaphthylene	0.0115	U	0.0500	0.0115	mg/L			05/11/15 08:16	13
Anthracene	0.0125	U	0.0500	0.0125	mg/L			05/11/15 08:16	14
Benzidine	0.0896	U	0.250	0.0896	mg/L			05/11/15 08:16	14
Benzo[a]anthracene	0.0106	U	0.0500	0.0106	mg/L			05/11/15 08:16	14
Benzo[b]fluoranthene	0.0125	U	0.0500	0.0125	mg/L			05/11/15 08:16	14
Benzo[k]fluoranthene	0.0150	U	0.0500	0.0150	mg/L			05/11/15 08:16	14
Benzo[g,h,i]perylene	0.0106	U	0.0500	0.0106	mg/L			05/11/15 08:16	14
Benzo[a]pyrene	0.0123	U	0.0500	0.0123	mg/L			05/11/15 08:16	14
Bis(2-chloroethoxy)methane	0.0146	U	0.0500	0.0146	mg/L			05/11/15 08:16	14
Bis(2-chloroethyl)ether	0.0132	U	0.0500	0.0132	mg/L			05/11/15 08:16	14
Bis(2-ethylhexyl) phthalate	0.0664		0.0500	0.0113	mg/L			05/11/15 08:16	14
4-Bromophenyl phenyl ether	0.0125	U	0.0500	0.0125	mg/L			05/11/15 08:16	14
Butyl benzyl phthalate	0.0118	U	0.0500	0.0118	mg/L			05/11/15 08:16	14
4-Chloroaniline	0.0106	U	0.0500	0.0106	mg/L			05/11/15 08:16	14
2-Chloronaphthalene	0.0141	U	0.0500	0.0141	mg/L			05/11/15 08:16	14
4-Chlorophenyl phenyl ether	0.0110	U	0.0500	0.0110	mg/L			05/11/15 08:16	14
Carbazole	0.0149	U	0.0500	0.0149	mg/L			05/11/15 08:16	14
Chrysene	0.0103	U	0.0500	0.0103	mg/L			05/11/15 08:16	14
Di-n-butyl phthalate	0.0105	U	0.0500	0.0105	mg/L			05/11/15 08:16	14
Dibenzo(a,h)anthracene	0.0124	U	0.0500	0.0124	mg/L			05/11/15 08:16	14
Dibenzofuran	0.0114	U	0.0500	0.0114	mg/L			05/11/15 08:16	14
1,2-Dichlorobenzene	0.0121	U	0.0500	0.0121	mg/L			05/11/15 08:16	14
1,3-Dichlorobenzene	0.0132	U	0.0500	0.0132	mg/L			05/11/15 08:16	14
1,4-Dichlorobenzene	0.00970	U	0.0500	0.00970	mg/L			05/11/15 08:16	14
3,3'-Dichlorobenzidine	0.0119	U	0.0500	0.0119	mg/L			05/11/15 08:16	14
Diethyl phthalate	0.0130	U	0.0500	0.0130	mg/L			05/11/15 08:16	14
Dimethyl phthalate	0.0124	U	0.0500	0.0124	mg/L			05/11/15 08:16	14
2,4-Dinitrotoluene	0.0106	U	0.0500	0.0106	mg/L			05/11/15 08:16	14
2,6-Dinitrotoluene	0.0140	U	0.0500	0.0140	mg/L			05/11/15 08:16	14
Di-n-octyl phthalate	0.00935	U	0.0500	0.00935	mg/L			05/11/15 08:16	14
Fluoranthene	0.0122	U	0.0500	0.0122	mg/L			05/11/15 08:16	14
Fluorene	0.0106	U	0.0500	0.0106	mg/L			05/11/15 08:16	14

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: FT 5180-05.06.2015

Lab Sample ID: 600-111073-1

Matrix: Water

Date Collected: 05/06/15 13:46

Date Received: 05/06/15 16:56

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	0.0164	U	0.0500	0.0164	mg/L		05/11/15 08:16	05/12/15 17:16	5
Hexachlorocyclopentadiene	0.0116	U	0.0500	0.0116	mg/L		05/11/15 08:16	05/12/15 17:16	5
Hexachloroethane	0.0165	U	0.0500	0.0165	mg/L		05/11/15 08:16	05/12/15 17:16	5
Hexachlorobutadiene	0.0129	U	0.0500	0.0129	mg/L		05/11/15 08:16	05/12/15 17:16	5
Indeno[1,2,3-cd]pyrene	0.0155	U	0.0500	0.0155	mg/L		05/11/15 08:16	05/12/15 17:16	5
Isophorone	0.0132	U	0.0500	0.0132	mg/L		05/11/15 08:16	05/12/15 17:16	5
2-Methylnaphthalene	0.0129	U	0.0500	0.0129	mg/L		05/11/15 08:16	05/12/15 17:16	5
Naphthalene	0.0153 J		0.0500	0.0110	mg/L		05/11/15 08:16	05/12/15 17:16	5
2-Nitroaniline	0.0190	U	0.0500	0.0190	mg/L		05/11/15 08:16	05/12/15 17:16	5
3-Nitroaniline	0.00925	U	0.0500	0.00925	mg/L		05/11/15 08:16	05/12/15 17:16	5
4-Nitroaniline	0.0117	U *	0.0500	0.0117	mg/L		05/11/15 08:16	05/12/15 17:16	5
Nitrobenzene	0.0130	U	0.0500	0.0130	mg/L		05/11/15 08:16	05/12/15 17:16	5
N-Nitrosodimethylamine	0.00695	U	0.0500	0.00695	mg/L		05/11/15 08:16	05/12/15 17:16	5
N-Nitrosodiphenylamine	0.0101	U	0.0500	0.0101	mg/L		05/11/15 08:16	05/12/15 17:16	5
N-Nitrosodi-n-propylamine	0.0160	U	0.0500	0.0160	mg/L		05/11/15 08:16	05/12/15 17:16	5
Phenanthrene	0.0112	U	0.0500	0.0112	mg/L		05/11/15 08:16	05/12/15 17:16	5
Pyrene	0.0150	U	0.0500	0.0150	mg/L		05/11/15 08:16	05/12/15 17:16	5
1,2,4-Trichlorobenzene	0.0103	U	0.0500	0.0103	mg/L		05/11/15 08:16	05/12/15 17:16	5
Benzyl alcohol	0.00990	U	0.0500	0.00990	mg/L		05/11/15 08:16	05/12/15 17:16	5
4-Chloro-3-methylphenol	0.00985	U	0.0500	0.00985	mg/L		05/11/15 08:16	05/12/15 17:16	5
2-Chlorophenol	0.0110	U	0.0500	0.0110	mg/L		05/11/15 08:16	05/12/15 17:16	5
2-Methylphenol	0.288		0.0500	0.00710	mg/L		05/11/15 08:16	05/12/15 17:16	5
3 & 4 Methylphenol	0.176		0.0500	0.00675	mg/L		05/11/15 08:16	05/12/15 17:16	5
2,4-Dichlorophenol	0.0108	U	0.0500	0.0108	mg/L		05/11/15 08:16	05/12/15 17:16	5
2,4-Dimethylphenol	0.100		0.0500	0.00970	mg/L		05/11/15 08:16	05/12/15 17:16	5
4,6-Dinitro-2-methylphenol	0.0168	U	0.0500	0.0168	mg/L		05/11/15 08:16	05/12/15 17:16	5
2,4-Dinitrophenol	0.0273	U	0.0500	0.0273	mg/L		05/11/15 08:16	05/12/15 17:16	5
2-Nitrophenol	0.0105	U	0.0500	0.0105	mg/L		05/11/15 08:16	05/12/15 17:16	5
4-Nitrophenol	0.0140	U	0.0500	0.0140	mg/L		05/11/15 08:16	05/12/15 17:16	5
Pentachlorophenol	0.0158	U	0.0500	0.0158	mg/L		05/11/15 08:16	05/12/15 17:16	5
Phenol	0.113		0.0500	0.00625	mg/L		05/11/15 08:16	05/12/15 17:16	5
2,4,5-Trichlorophenol	0.0210	U	0.0500	0.0210	mg/L		05/11/15 08:16	05/12/15 17:16	5
2,4,6-Trichlorophenol	0.0185 J		0.0500	0.0166	mg/L		05/11/15 08:16	05/12/15 17:16	5
bis (2-Chloroisopropyl) ether	0.0146	U	0.0500	0.0146	mg/L		05/11/15 08:16	05/12/15 17:16	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	87		24 - 150		05/11/15 08:16	05/12/15 17:16
2-Fluorophenol	70		10 - 130		05/11/15 08:16	05/12/15 17:16
2-Fluorobiphenyl	78		38 - 133		05/11/15 08:16	05/12/15 17:16
2,4,6-Tribromophenol	101		19 - 150		05/11/15 08:16	05/12/15 17:16
Terphenyl-d14	96		35 - 150		05/11/15 08:16	05/12/15 17:16
Phenol-d5 (Surr)	61		10 - 130		05/11/15 08:16	05/12/15 17:16

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L		05/11/15 14:04	05/13/15 14:24	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L		05/11/15 14:04	05/13/15 14:24	1
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L		05/11/15 14:04	05/13/15 14:24	1
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L		05/11/15 14:04	05/13/15 14:24	1
2-Methylphenol	0.0686		0.0500	0.00905	mg/L		05/11/15 14:04	05/13/15 14:24	1

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: FT 5180-05.06.2015

Lab Sample ID: 600-111073-1

Matrix: Water

Date Collected: 05/06/15 13:46

Date Received: 05/06/15 16:56

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	0.0418	J	0.100	0.00940	mg/L		05/11/15 14:04	05/13/15 14:24	1
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L		05/11/15 14:04	05/13/15 14:24	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L		05/11/15 14:04	05/13/15 14:24	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L		05/11/15 14:04	05/13/15 14:24	1
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L		05/11/15 14:04	05/13/15 14:24	1
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L		05/11/15 14:04	05/13/15 14:24	1
Pyridine	0.0108	U	0.0500	0.0108	mg/L		05/11/15 14:04	05/13/15 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Nitrobenzene-d5</i>	68		35 - 130				05/11/15 14:04	05/13/15 14:24	1
<i>2-Fluorophenol</i>	67		10 - 130				05/11/15 14:04	05/13/15 14:24	1
<i>2-Fluorobiphenyl</i>	74		41 - 130				05/11/15 14:04	05/13/15 14:24	1
<i>2,4,6-Tribromophenol</i>	73		12 - 138				05/11/15 14:04	05/13/15 14:24	1
<i>Terphenyl-d14</i>	73		43 - 130				05/11/15 14:04	05/13/15 14:24	1
<i>Phenol-d5 (Surr)</i>	65		10 - 130				05/11/15 14:04	05/13/15 14:24	1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	2.71		1.69	0.702	mg/L		05/08/15 12:04	05/11/15 08:23	1
>C12-C28	50.6		1.69	0.812	mg/L		05/08/15 12:04	05/11/15 08:23	1
>C28-C35	19.2		1.69	0.812	mg/L		05/08/15 12:04	05/11/15 08:23	1
C6-C35	72.5		1.69	0.702	mg/L		05/08/15 12:04	05/11/15 08:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	106		70 - 130				05/08/15 12:04	05/11/15 08:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0502		0.0100	0.00720	mg/L		05/12/15 13:09	05/13/15 12:48	1
Barium	2.99		0.0100	0.00500	mg/L		05/12/15 13:09	05/13/15 12:48	1
Cadmium	0.00620		0.00100	0.000500	mg/L		05/12/15 13:09	05/13/15 12:48	1
Chromium	0.260		0.00500	0.00300	mg/L		05/12/15 13:09	05/13/15 12:48	1
Lead	0.276		0.00500	0.00200	mg/L		05/12/15 13:09	05/13/15 12:48	1
Selenium	0.00500	U	0.0100	0.00500	mg/L		05/12/15 13:09	05/13/15 12:48	1
Silver	0.0125		0.00500	0.00250	mg/L		05/12/15 13:09	05/13/15 12:48	1
Sulfur	412	B	2.50	1.00	mg/L		05/12/15 13:09	05/13/15 12:53	10

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0328	U	0.100	0.0328	mg/L		05/11/15 13:12	05/12/15 15:21	1
Barium	0.288	B	0.200	0.0220	mg/L		05/11/15 13:12	05/12/15 15:21	1
Cadmium	0.00350	U	0.0500	0.00350	mg/L		05/11/15 13:12	05/12/15 15:21	1
Chromium	0.0155	U	0.100	0.0155	mg/L		05/11/15 13:12	05/12/15 15:21	1
Lead	0.0290	U	0.100	0.0290	mg/L		05/11/15 13:12	05/12/15 15:21	1
Selenium	0.0417	U	0.400	0.0417	mg/L		05/11/15 13:12	05/12/15 15:21	1
Silver	0.0125	U	0.100	0.0125	mg/L		05/11/15 13:12	05/12/15 15:21	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000820	U	0.00200	0.000820	mg/L		05/12/15 07:44	05/12/15 11:09	1

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: FT 5180-05.06.2015

Lab Sample ID: 600-111073-1

Matrix: Water

Date Collected: 05/06/15 13:46

Date Received: 05/06/15 16:56

Method: 7470A - Mercury in Liquid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000820	U	0.00200	0.000820	mg/L		05/12/15 07:44	05/12/15 11:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	1.40	U	50.0	1.40	mg/L		05/13/15 09:40	05/14/15 11:25	1
Cyanide, Reactive	0.0397	U	0.250	0.0397	mg/L		05/13/15 09:40	05/14/15 10:31	1
Halogens, Total Organic	13.3		3.00	1.50	mg/L			05/13/15 16:07	100
pH	5.85	H	0.0100	0.0100	SU			05/13/15 14:30	1
Percent Water	98.0				%			05/13/15 14:30	1
BTU	500	U	500	500	BTU/lb			05/13/15 13:15	1
Total Suspended Solids	830		33.3	33.3	mg/L			05/09/15 08:34	1
Flashpoint	>186		1.00	1.00	Degrees F			05/11/15 11:03	1

Client Sample ID: OT 25319-05.06.2015

Lab Sample ID: 600-111073-2

Matrix: Solid

Date Collected: 05/06/15 12:29

Date Received: 05/06/15 16:56

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.00174	U	0.0105	0.00174	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Benzene	0.000660	U	0.00524	0.000660	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Bromodichloromethane	0.000692	U	0.00524	0.000692	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Bromoform	0.00144	U	0.00524	0.00144	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Bromomethane	0.000870	U	0.0105	0.000870	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
2-Butanone (MEK)	0.00199	U	0.0105	0.00199	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Carbon disulfide	0.000577	U	0.0105	0.000577	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Carbon tetrachloride	0.00118	U	0.00524	0.00118	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Chlorobenzene	0.00101	U	0.00524	0.00101	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Chlorobromomethane	0.00187	U	0.00524	0.00187	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Chloroethane	0.00147	U	0.0105	0.00147	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Chloroform	0.000692	U	0.00524	0.000692	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Chloromethane	0.00174	U	0.0105	0.00174	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
cis-1,2-Dichloroethene	0.000870	U	0.00524	0.000870	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
cis-1,3-Dichloropropene	0.000566	U	0.00524	0.000566	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Dibromochloromethane	0.000985	U	0.00524	0.000985	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
1,1-Dichloroethane	0.000912	U	0.00524	0.000912	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
1,2-Dichloroethane	0.000943	U	0.00524	0.000943	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
1,1-Dichloroethene	0.00128	U	0.00524	0.00128	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
1,2-Dichloroethene, Total	0.00199	U	0.0105	0.00199	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
1,2-Dichloropropane	0.000744	U	0.00524	0.000744	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Ethylbenzene	0.00523	J	0.00524	0.00107	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
2-Hexanone	0.00106	U	0.0105	0.00106	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Methylene Chloride	0.00230	U	0.0105	0.00230	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
4-Methyl-2-pentanone (MIBK)	0.00154	U	0.0105	0.00154	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
m-Xylene & p-Xylene	0.0149		0.00524	0.00159	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
o-Xylene	0.00667		0.00524	0.00118	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Styrene	0.000744	U	0.00524	0.000744	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
1,1,2,2-Tetrachloroethane	0.000912	U	0.00524	0.000912	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Tetrachloroethene	0.000744	U	0.00524	0.000744	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Toluene	0.00145	U	0.00524	0.00145	mg/Kg		05/09/15 13:04	05/09/15 18:54	1

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25319-05.06.2015

Lab Sample ID: 600-111073-2

Matrix: Solid

Date Collected: 05/06/15 12:29

Date Received: 05/06/15 16:56

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.00119	U	0.00524	0.00119	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
trans-1,3-Dichloropropene	0.000608	U	0.00524	0.000608	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
1,1,1-Trichloroethane	0.000776	U	0.00524	0.000776	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
1,1,2-Trichloroethane	0.000765	U	0.0419	0.000765	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Trichloroethene	0.00147	U	0.00524	0.00147	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Vinyl acetate	0.000975	U	0.0105	0.000975	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Vinyl chloride	0.000943	U	0.0105	0.000943	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Xylenes, Total	0.0216		0.00524	0.00118	mg/Kg		05/09/15 13:04	05/09/15 18:54	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	83			57 - 140			05/09/15 13:04	05/09/15 18:54	1
Dibromofluoromethane	80			68 - 140			05/09/15 13:04	05/09/15 18:54	1
1,2-Dichloroethane-d4 (Surr)	74			61 - 130			05/09/15 13:04	05/09/15 18:54	1
Toluene-d8 (Surr)	73			50 - 130			05/09/15 13:04	05/09/15 18:54	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0426	U	0.200	0.0426	mg/L		05/14/15 14:22		1
1,2-Dichloroethane	0.0384	U	0.200	0.0384	mg/L		05/14/15 14:22		1
2-Butanone (MEK)	0.0434	U	0.200	0.0434	mg/L		05/14/15 14:22		1
Benzene	0.0396	U	0.200	0.0396	mg/L		05/14/15 14:22		1
Carbon tetrachloride	0.0433	U	0.200	0.0433	mg/L		05/14/15 14:22		1
Chlorobenzene	0.0210	U	0.200	0.0210	mg/L		05/14/15 14:22		1
Chloroform	0.0403	U	0.200	0.0403	mg/L		05/14/15 14:22		1
Tetrachloroethene	0.0330	U	0.200	0.0330	mg/L		05/14/15 14:22		1
Trichloroethene	0.0320	U	0.200	0.0320	mg/L		05/14/15 14:22		1
Vinyl chloride	0.0516	U	0.200	0.0516	mg/L		05/14/15 14:22		1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103			80 - 120			05/14/15 14:22		1
1,2-Dichloroethane-d4 (Surr)	81			62 - 123			05/14/15 14:22		1
4-Bromofluorobenzene (Surr)	84			75 - 120			05/14/15 14:22		1
Dibromofluoromethane (Surr)	99			80 - 120			05/14/15 14:22		1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	3.78	U	6.60	3.78	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Acenaphthylene	3.85	U	6.60	3.85	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Anthracene	4.15	U	6.60	4.15	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Benzidine	0.180	U	32.0	0.180	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Benzo[a]anthracene	4.15	U	6.60	4.15	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Benzo[b]fluoranthene	0.387	U	6.60	0.387	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Benzo[k]fluoranthene	0.588	U	6.60	0.588	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Benzo[g,h,i]perylene	3.51	U	6.60	3.51	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Benzo[a]pyrene	3.70	U	6.60	3.70	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Bis(2-chloroethoxy)methane	3.72	U	6.60	3.72	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Bis(2-chloroethyl)ether	0.660	U	6.60	0.660	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Bis(2-ethylhexyl) phthalate	14.5		6.60	4.00	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
4-Bromophenyl phenyl ether	4.00	U	6.60	4.00	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
Butyl benzyl phthalate	4.01	U	6.60	4.01	mg/Kg		05/12/15 12:57	05/13/15 12:49	10

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25319-05.06.2015

Lab Sample ID: 600-111073-2

Matrix: Solid

Date Collected: 05/06/15 12:29

Date Received: 05/06/15 16:56

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	1.32	U	6.60	1.32	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	1
2-Chloronaphthalene	4.30	U	6.60	4.30	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	2
4-Chlorophenyl phenyl ether	3.97	U	6.60	3.97	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	3
Carbazole	4.08	U	6.60	4.08	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	4
Chrysene	4.03	U	6.60	4.03	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	5
Di-n-butyl phthalate	4.26	U	6.60	4.26	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	6
Dibenz(a,h)anthracene	3.80	U	6.60	3.80	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	7
Dibenzofuran	3.93	U	6.60	3.93	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	8
1,2-Dichlorobenzene	0.526	U	6.60	0.526	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	9
1,3-Dichlorobenzene	3.56	U	6.60	3.56	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	10
1,4-Dichlorobenzene	0.461	U	6.60	0.461	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	11
3,3'-Dichlorobenzidine	1.27	U	13.2	1.27	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	12
Diethyl phthalate	4.08	U	6.60	4.08	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	13
Dimethyl phthalate	3.99	U	6.60	3.99	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	14
2,4-Dinitrotoluene	0.658	U	6.60	0.658	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	1
2,6-Dinitrotoluene	4.19	U	6.60	4.19	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	2
Di-n-octyl phthalate	4.27	U	6.60	4.27	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	3
Fluoranthene	4.22	U	6.60	4.22	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	4
Fluorene	4.06	U	6.60	4.06	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	5
Hexachlorobenzene	4.16	U	6.60	4.16	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	6
Hexachlorocyclopentadiene	0.445	U	6.60	0.445	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	7
Hexachloroethane	0.598	U	6.60	0.598	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	8
Hexachlorobutadiene	0.678	U	6.60	0.678	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	9
Indeno[1,2,3-cd]pyrene	3.62	U	6.60	3.62	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	10
Isophorone	3.88	U	6.60	3.88	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	11
2-Methylnaphthalene	3.78	U	6.60	3.78	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	12
Naphthalene	0.386	U	6.60	0.386	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	13
2-Nitroaniline	3.89	U	32.0	3.89	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	14
3-Nitroaniline	4.23	U	32.0	4.23	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	1
4-Nitroaniline	3.61	U	32.0	3.61	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	2
Nitrobenzene	0.948	U	6.60	0.948	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	3
N-Nitrosodimethylamine	1.91	U	6.60	1.91	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	4
N-Nitrosodiphenylamine	0.631	U	6.60	0.631	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	5
N-Nitrosodi-n-propylamine	0.572	U	6.60	0.572	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	6
Phenanthrene	4.06	U	6.60	4.06	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	7
Pyrene	4.42	U	6.60	4.42	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	8
1,2,4-Trichlorobenzene	4.21	U	6.60	4.21	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	9
Benzyl alcohol	1.25	U	6.60	1.25	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	10
4-Chloro-3-methylphenol	3.84	U	6.60	3.84	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	11
2-Chlorophenol	0.466	U	6.60	0.466	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	12
2-Methylphenol	0.757	U	6.60	0.757	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	13
3 & 4 Methylphenol	0.601	U	13.2	0.601	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	14
2,4-Dichlorophenol	3.65	U	6.60	3.65	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	1
2,4-Dimethylphenol	1.27	U	6.60	1.27	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	2
4,6-Dinitro-2-methylphenol	4.13	U	32.0	4.13	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	3
2,4-Dinitrophenol	2.56	U	32.0	2.56	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	4
2-Nitrophenol	3.60	U	6.60	3.60	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	5
4-Nitrophenol	3.60	U	32.0	3.60	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	6
Pentachlorophenol	0.442	U	32.0	0.442	mg/Kg	05/12/15 12:57	05/13/15 12:49	10	7

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25319-05.06.2015

Lab Sample ID: 600-111073-2

Matrix: Solid

Date Collected: 05/06/15 12:29

Date Received: 05/06/15 16:56

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	0.747	U	6.60	0.747	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
2,4,5-Trichlorophenol	1.24	U	6.60	1.24	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
2,4,6-Trichlorophenol	3.60	U	6.60	3.60	mg/Kg		05/12/15 12:57	05/13/15 12:49	10
bis (2-Chloroisopropyl) ether	0.693	U	6.60	0.693	mg/Kg		05/12/15 12:57	05/13/15 12:49	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Nitrobenzene-d5	0	X	10 - 150		05/12/15 12:57	05/13/15 12:49	10
2-Fluorophenol	0	X	25 - 132		05/12/15 12:57	05/13/15 12:49	10
2-Fluorobiphenyl	0	X	38 - 130		05/12/15 12:57	05/13/15 12:49	10
2,4,6-Tribromophenol	0	X	10 - 148		05/12/15 12:57	05/13/15 12:49	10
Terphenyl-d14	0	X	53 - 134		05/12/15 12:57	05/13/15 12:49	10
Phenol-d5 (Surr)	0	X	27 - 123		05/12/15 12:57	05/13/15 12:49	10

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L		05/08/15 15:09	05/11/15 17:43	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L		05/08/15 15:09	05/11/15 17:43	1
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L		05/08/15 15:09	05/11/15 17:43	1
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L		05/08/15 15:09	05/11/15 17:43	1
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L		05/08/15 15:09	05/11/15 17:43	1
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L		05/08/15 15:09	05/11/15 17:43	1
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L		05/08/15 15:09	05/11/15 17:43	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L		05/08/15 15:09	05/11/15 17:43	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L		05/08/15 15:09	05/11/15 17:43	1
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L		05/08/15 15:09	05/11/15 17:43	1
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L		05/08/15 15:09	05/11/15 17:43	1
Pyridine	0.0108	U	0.0500	0.0108	mg/L		05/08/15 15:09	05/11/15 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
Phenol-d5	62		10 - 130		05/08/15 15:09	05/11/15 17:43	1
Nitrobenzene-d5	104		35 - 130		05/08/15 15:09	05/11/15 17:43	1
2-Fluorophenol	74		10 - 130		05/08/15 15:09	05/11/15 17:43	1
2-Fluorobiphenyl	84		41 - 130		05/08/15 15:09	05/11/15 17:43	1
2,4,6-Tribromophenol	85		12 - 138		05/08/15 15:09	05/11/15 17:43	1
Terphenyl-d14	91		43 - 130		05/08/15 15:09	05/11/15 17:43	1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	221	J	497	189	mg/Kg		05/08/15 10:01	05/08/15 13:05	50
>C12-C28	24400		497	202	mg/Kg		05/08/15 10:01	05/08/15 13:05	50
>C28-C35	5680		497	202	mg/Kg		05/08/15 10:01	05/08/15 13:05	50
C6-C35	30300		497	189	mg/Kg		05/08/15 10:01	05/08/15 13:05	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
o-Terphenyl	0	X	70 - 130		05/08/15 10:01	05/08/15 13:05	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.889	U	1.98	0.889	mg/Kg		05/12/15 13:26	05/12/15 22:16	1
Barium	72.5		1.98	1.58	mg/Kg		05/12/15 13:26	05/12/15 22:16	1
Cadmium	0.119	J	0.988	0.0988	mg/Kg		05/12/15 13:26	05/12/15 22:16	1

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25319-05.06.2015

Lab Sample ID: 600-111073-2

Matrix: Solid

Date Collected: 05/06/15 12:29

Date Received: 05/06/15 16:56

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	19.1		0.988	0.593	mg/Kg		05/12/15 13:26	05/12/15 22:16	1
Lead	9.80		0.988	0.494	mg/Kg		05/12/15 13:26	05/12/15 22:16	1
Selenium	0.988	U	1.98	0.988	mg/Kg		05/12/15 13:26	05/12/15 22:16	1
Silver	0.494	U	0.988	0.494	mg/Kg		05/12/15 13:26	05/12/15 22:16	1
Sodium	1440		198	98.8	mg/Kg		05/12/15 13:26	05/12/15 22:16	1
Sulfur	2210		49.4	19.8	mg/Kg		05/12/15 13:26	05/12/15 22:16	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0125	U	0.100	0.0125	mg/L		05/08/15 11:55	05/12/15 14:04	1
Arsenic	0.0328	U	0.100	0.0328	mg/L		05/08/15 11:55	05/12/15 14:04	1
Barium	0.256	B	0.200	0.0220	mg/L		05/08/15 11:55	05/12/15 14:04	1
Cadmium	0.00350	U	0.0500	0.00350	mg/L		05/08/15 11:55	05/12/15 14:04	1
Chromium	0.0193	J	0.100	0.0155	mg/L		05/08/15 11:55	05/12/15 14:04	1
Lead	0.0290	U	0.100	0.0290	mg/L		05/08/15 11:55	05/12/15 14:04	1
Selenium	0.0417	U	0.400	0.0417	mg/L		05/08/15 11:55	05/12/15 14:04	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000820	U	0.00200	0.000820	mg/L		05/11/15 08:13	05/11/15 11:55	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.241		0.0162	0.00341	mg/Kg		05/11/15 10:12	05/11/15 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	14.0	U	50.0	14.0	mg/Kg		05/07/15 10:40	05/07/15 21:04	1
Cyanide, Reactive	0.0855	U	0.250	0.0855	mg/Kg		05/07/15 10:40	05/07/15 20:58	1
Halogens, Extractable Organic	42.1	J	200	34.0	mg/Kg		05/12/15 12:37	05/12/15 13:08	1
pH	8.36		0.0100	0.0100	SU			05/13/15 14:30	1
Flashpoint	>212		1.00	1.00	Degrees F			05/11/15 11:03	1

Client Sample ID: OT 25134-05.06.2015

Lab Sample ID: 600-111073-3

Matrix: Solid

Date Collected: 05/06/15 12:50

Date Received: 05/06/15 16:56

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	2.08	U	12.5	2.08	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Vinyl chloride	1.13	U	12.5	1.13	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Bromomethane	1.04	U	12.5	1.04	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Chloroethane	1.75	U	12.5	1.75	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
1,1-Dichloroethene	1.53	U	6.25	1.53	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
trans-1,2-Dichloroethene	1.43	U	6.25	1.43	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Acetone	2.08	U	12.5	2.08	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Carbon disulfide	0.688	U	12.5	0.688	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Methylene Chloride	3.74	J	12.5	2.74	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Vinyl acetate	1.16	U	12.5	1.16	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
cis-1,2-Dichloroethene	1.04	U	6.25	1.04	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
1,2-Dichloroethene, Total	2.38	U	12.5	2.38	mg/Kg		05/07/15 15:00	05/07/15 18:56	10

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25134-05.06.2015

Lab Sample ID: 600-111073-3

Matrix: Solid

Date Collected: 05/06/15 12:50

Date Received: 05/06/15 16:56

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2.38	U	12.5	2.38	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Chlorobromomethane	2.23	U	6.25	2.23	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Carbon tetrachloride	1.41	U	6.25	1.41	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Benzene	0.788	U	6.25	0.788	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
1,2-Dichloroethane	1.13	U	6.25	1.13	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Trichloroethene	1.75	U	6.25	1.75	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
1,1,1-Trichloroethane	0.925	U	6.25	0.925	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
1,1-Dichloroethane	1.09	U	6.25	1.09	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
1,2-Dichloropropane	0.888	U	6.25	0.888	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Chloroform	0.825	U	6.25	0.825	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Bromodichloromethane	0.825	U	6.25	0.825	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
cis-1,3-Dichloropropene	0.675	U	6.25	0.675	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
4-Methyl-2-pentanone (MIBK)	1.84	U	12.5	1.84	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Toluene	2.15	J	6.25	1.73	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
trans-1,3-Dichloropropene	0.725	U	6.25	0.725	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
1,1,2-Trichloroethane	0.913	U	50.0	0.913	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Tetrachloroethene	0.888	U	6.25	0.888	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
2-Hexanone	1.26	U	12.5	1.26	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Dibromochloromethane	1.18	U	6.25	1.18	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Chlorobenzene	1.20	U	6.25	1.20	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Ethylbenzene	3.54	J	6.25	1.28	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
m-Xylene & p-Xylene	11.4		6.25	1.90	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Xylenes, Total	14.1		6.25	1.41	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
o-Xylene	2.69	J	6.25	1.41	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Styrene	0.888	U	6.25	0.888	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Bromoform	1.71	U	6.25	1.71	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
1,1,2,2-Tetrachloroethane	1.09	U	6.25	1.09	mg/Kg		05/07/15 15:00	05/07/15 18:56	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		61 - 130				05/07/15 15:00	05/07/15 18:56	10
Dibromofluoromethane	74		68 - 140				05/07/15 15:00	05/07/15 18:56	10
Toluene-d8 (Surr)	78		50 - 130				05/07/15 15:00	05/07/15 18:56	10
4-Bromofluorobenzene	82		57 - 140				05/07/15 15:00	05/07/15 18:56	10

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.0426	U	0.200	0.0426	mg/L		05/14/15 14:49		1
1,2-Dichloroethane	0.0384	U	0.200	0.0384	mg/L		05/14/15 14:49		1
2-Butanone (MEK)	0.0434	U	0.200	0.0434	mg/L		05/14/15 14:49		1
Benzene	0.0396	U	0.200	0.0396	mg/L		05/14/15 14:49		1
Carbon tetrachloride	0.0433	U	0.200	0.0433	mg/L		05/14/15 14:49		1
Chlorobenzene	0.0210	U	0.200	0.0210	mg/L		05/14/15 14:49		1
Chloroform	0.0403	U	0.200	0.0403	mg/L		05/14/15 14:49		1
Tetrachloroethene	0.0330	U	0.200	0.0330	mg/L		05/14/15 14:49		1
Trichloroethene	0.0320	U	0.200	0.0320	mg/L		05/14/15 14:49		1
Vinyl chloride	0.0516	U	0.200	0.0516	mg/L		05/14/15 14:49		1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	113		80 - 120				05/14/15 14:49		1
1,2-Dichloroethane-d4 (Surr)	94		62 - 123				05/14/15 14:49		1

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25134-05.06.2015

Lab Sample ID: 600-111073-3

Date Collected: 05/06/15 12:50

Matrix: Solid

Date Received: 05/06/15 16:56

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared		Analyzed	Dil Fac
				05/14/15 14:49	05/14/15 14:49		
4-Bromofluorobenzene (Surr)	89		75 - 120				1
Dibromofluoromethane (Surr)	102		80 - 120				1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	28.0	U	48.9	28.0	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Acenaphthylene	28.5	U	48.9	28.5	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Anthracene	30.7	U	48.9	30.7	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Benzidine	1.34	U	237	1.34	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Benzo[a]anthracene	30.7	U	48.9	30.7	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Benzo[b]fluoranthene	2.87	U	48.9	2.87	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Benzo[k]fluoranthene	4.36	U	48.9	4.36	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Benzo[g,h,i]perylene	26.0	U	48.9	26.0	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Benzo[a]pyrene	27.4	U	48.9	27.4	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Bis(2-chloroethoxy)methane	27.6	U	48.9	27.6	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Bis(2-chloroethyl)ether	4.89	U	48.9	4.89	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Bis(2-ethylhexyl) phthalate	29.7	U	48.9	29.7	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
4-Bromophenyl phenyl ether	29.6	U	48.9	29.6	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Butyl benzyl phthalate	29.7	U	48.9	29.7	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
4-Chloroaniline	9.78	U	48.9	9.78	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
2-Chloronaphthalene	31.8	U	48.9	31.8	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
4-Chlorophenyl phenyl ether	29.4	U	48.9	29.4	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Carbazole	30.2	U	48.9	30.2	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Chrysene	29.9	U	48.9	29.9	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Di-n-butyl phthalate	31.6	U	48.9	31.6	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Dibenz(a,h)anthracene	28.1	U	48.9	28.1	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Dibenzofuran	29.2	U	48.9	29.2	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
1,2-Dichlorobenzene	3.90	U	48.9	3.90	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
1,3-Dichlorobenzene	26.4	U	48.9	26.4	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
1,4-Dichlorobenzene	3.42	U	48.9	3.42	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
3,3'-Dichlorobenzidine	9.43	U	97.8	9.43	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Diethyl phthalate	30.3	U	48.9	30.3	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Dimethyl phthalate	29.6	U	48.9	29.6	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
2,4-Dinitrotoluene	4.88	U	48.9	4.88	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
2,6-Dinitrotoluene	31.1	U	48.9	31.1	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Di-n-octyl phthalate	31.7	U	48.9	31.7	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Fluoranthene	31.2	U	48.9	31.2	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Fluorene	30.1	U	48.9	30.1	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Hexachlorobenzene	30.8	U	48.9	30.8	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Hexachlorocyclopentadiene	3.30	U	48.9	3.30	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Hexachloroethane	4.43	U	48.9	4.43	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Hexachlorobutadiene	5.03	U	48.9	5.03	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Indeno[1,2,3-cd]pyrene	26.8	U	48.9	26.8	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Isophorone	28.7	U	48.9	28.7	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
2-Methylnaphthalene	28.0	U	48.9	28.0	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
Naphthalene	2.86	U	48.9	2.86	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
2-Nitroaniline	28.8	U	237	28.8	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
3-Nitroaniline	31.4	U	237	31.4	mg/Kg	05/12/15 12:57	05/13/15 13:23		10
4-Nitroaniline	26.7	U	237	26.7	mg/Kg	05/12/15 12:57	05/13/15 13:23		10

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25134-05.06.2015

Lab Sample ID: 600-111073-3

Matrix: Solid

Date Collected: 05/06/15 12:50

Date Received: 05/06/15 16:56

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	7.03	U	48.9	7.03	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
N-Nitrosodimethylamine	14.2	U	48.9	14.2	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
N-Nitrosodiphenylamine	4.67	U	48.9	4.67	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
N-Nitrosodi-n-propylamine	4.24	U	48.9	4.24	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
Phenanthrene	30.1	U	48.9	30.1	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
Pyrene	32.7	U	48.9	32.7	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
1,2,4-Trichlorobenzene	31.2	U	48.9	31.2	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
Benzyl alcohol	9.24	U	48.9	9.24	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
4-Chloro-3-methylphenol	28.5	U	48.9	28.5	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
2-Chlorophenol	3.45	U	48.9	3.45	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
2-Methylphenol	5.61	U	48.9	5.61	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
3 & 4 Methylphenol	4.46	U	97.8	4.46	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
2,4-Dichlorophenol	27.1	U	48.9	27.1	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
2,4-Dimethylphenol	9.43	U	48.9	9.43	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
4,6-Dinitro-2-methylphenol	30.6	U	237	30.6	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
2,4-Dinitrophenol	19.0	U	237	19.0	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
2-Nitrophenol	26.7	U	48.9	26.7	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
4-Nitrophenol	26.7	U	237	26.7	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
Pentachlorophenol	3.28	U	237	3.28	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
Phenol	5.54	U	48.9	5.54	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
2,4,5-Trichlorophenol	9.20	U	48.9	9.20	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
2,4,6-Trichlorophenol	26.7	U	48.9	26.7	mg/Kg		05/12/15 12:57	05/13/15 13:23	10
bis (2-Chloroisopropyl) ether	5.13	U	48.9	5.13	mg/Kg		05/12/15 12:57	05/13/15 13:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	0	X	10 - 150		05/12/15 12:57	05/13/15 13:23
2-Fluorophenol	0	X	25 - 132		05/12/15 12:57	05/13/15 13:23
2-Fluorobiphenyl	0	X	38 - 130		05/12/15 12:57	05/13/15 13:23
2,4,6-Tribromophenol	0	X	10 - 148		05/12/15 12:57	05/13/15 13:23
Terphenyl-d14	0	X	53 - 134		05/12/15 12:57	05/13/15 13:23
Phenol-d5 (Surr)	0	X	27 - 123		05/12/15 12:57	05/13/15 13:23

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L		05/08/15 15:09	05/11/15 18:10	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L		05/08/15 15:09	05/11/15 18:10	1
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L		05/08/15 15:09	05/11/15 18:10	1
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L		05/08/15 15:09	05/11/15 18:10	1
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L		05/08/15 15:09	05/11/15 18:10	1
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L		05/08/15 15:09	05/11/15 18:10	1
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L		05/08/15 15:09	05/11/15 18:10	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L		05/08/15 15:09	05/11/15 18:10	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L		05/08/15 15:09	05/11/15 18:10	1
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L		05/08/15 15:09	05/11/15 18:10	1
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L		05/08/15 15:09	05/11/15 18:10	1
Pyridine	0.0108	U	0.0500	0.0108	mg/L		05/08/15 15:09	05/11/15 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5	61		10 - 130		05/08/15 15:09	05/11/15 18:10
Nitrobenzene-d5	82		35 - 130		05/08/15 15:09	05/11/15 18:10

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25134-05.06.2015

Lab Sample ID: 600-111073-3

Matrix: Solid

Date Collected: 05/06/15 12:50

Date Received: 05/06/15 16:56

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	73		10 - 130	05/08/15 15:09	05/11/15 18:10	1
2-Fluorobiphenyl	81		41 - 130	05/08/15 15:09	05/11/15 18:10	1
2,4,6-Tribromophenol	84		12 - 138	05/08/15 15:09	05/11/15 18:10	1
Terphenyl-d14	89		43 - 130	05/08/15 15:09	05/11/15 18:10	1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	338	J	500	190	mg/Kg	05/08/15 10:01	05/08/15 13:38	50	9
>C12-C28	28100		500	203	mg/Kg	05/08/15 10:01	05/08/15 13:38	50	
>C28-C35	11700		500	203	mg/Kg	05/08/15 10:01	05/08/15 13:38	50	
C6-C35	40100		500	190	mg/Kg	05/08/15 10:01	05/08/15 13:38	50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	0	X	70 - 130				05/08/15 10:01	05/08/15 13:38	50

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.884	U	1.96	0.884	mg/Kg	05/12/15 13:26	05/12/15 22:21		1
Barium	3930		1.96	1.57	mg/Kg	05/12/15 13:26	05/12/15 22:21		
Cadmium	0.118	J	0.982	0.0982	mg/Kg	05/12/15 13:26	05/12/15 22:21		
Chromium	25.1		0.982	0.589	mg/Kg	05/12/15 13:26	05/12/15 22:21		
Lead	15.8		0.982	0.491	mg/Kg	05/12/15 13:26	05/12/15 22:21		
Selenium	3.12		1.96	0.982	mg/Kg	05/12/15 13:26	05/12/15 22:21		
Silver	3.18		0.982	0.491	mg/Kg	05/12/15 13:26	05/12/15 22:21		
Sodium	3510		196	98.2	mg/Kg	05/12/15 13:26	05/12/15 22:21		
Sulfur	3060		49.1	19.6	mg/Kg	05/12/15 13:26	05/12/15 22:21		

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.0125	U	0.100	0.0125	mg/L	05/08/15 11:55	05/12/15 14:11		1
Arsenic	0.0328	U	0.100	0.0328	mg/L	05/08/15 11:55	05/12/15 14:11		1
Barium	0.186	J B	0.200	0.0220	mg/L	05/08/15 11:55	05/12/15 14:11		1
Cadmium	0.00350	U	0.0500	0.00350	mg/L	05/08/15 11:55	05/12/15 14:11		1
Chromium	0.0155	U	0.100	0.0155	mg/L	05/08/15 11:55	05/12/15 14:11		1
Lead	0.0290	U	0.100	0.0290	mg/L	05/08/15 11:55	05/12/15 14:11		1
Selenium	0.0417	U	0.400	0.0417	mg/L	05/08/15 11:55	05/12/15 14:11		1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.000820	U	0.00200	0.000820	mg/L	05/11/15 08:13	05/11/15 12:03		1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0784	J	0.170	0.0358	mg/Kg	05/11/15 10:12	05/11/15 13:58		10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	13.9	U	49.8	13.9	mg/Kg	05/07/15 10:40	05/07/15 21:04		1
Cyanide, Reactive	0.0851	U	0.249	0.0851	mg/Kg	05/07/15 10:40	05/07/15 20:58		1
Halogens, Extractable Organic	780		197	33.5	mg/Kg	05/12/15 12:37	05/12/15 13:26		1
pH	9.33		0.0100	0.0100	SU			05/13/15 14:30	1

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25134-05.06.2015

Lab Sample ID: 600-111073-3

Date Collected: 05/06/15 12:50

Matrix: Solid

Date Received: 05/06/15 16:56

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>212		1.00	1.00	Degrees F			05/11/15 11:03	1

Definitions/Glossary

Client: CB&I Federal Services LLC
Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (57-140)	DBFM (68-140)	12DCE (61-130)	TOL (50-130)
600-111073-2	OT 25319-05.06.2015	83	80	74	73
600-111073-3	OT 25134-05.06.2015	82	74	86	78
LCS 600-161916/1-A	Lab Control Sample	121	96	95	97
LCS 600-162021/3	Lab Control Sample	94	72	67	82
LCSD 600-161916/2-A	Lab Control Sample Dup	110	93	89	100
LCSD 600-162021/1004	Lab Control Sample Dup	94	86	83	80
MB 600-161916/3-A	Method Blank	104	88	85	102
MB 600-162021/6	Method Blank	87	95	92	89

Surrogate Legend

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	BFB (75-120)	12DCE (62-123)	DBFM (80-120)
LCS 180-141542/13	Lab Control Sample	100	96	88	98

Surrogate Legend

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	12DCE (62-123)	BFB (75-120)	DBFM (80-120)
600-111073-2	OT 25319-05.06.2015	103	81	84	99
600-111073-3	OT 25134-05.06.2015	113	94	89	102
LB 180-141421/8-A	Method Blank	108	73	82	88

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TestAmerica Houston

Surrogate Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (67-134)	DBFM (81-121)	TOL (80-120)	BFB (78-118)
600-111073-1	FT 5180-05.06.2015	98	104	100	100
LCS 400-257275/1002	Lab Control Sample	115	106	99	95
MB 400-257275/4	Method Blank	101	104	99	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	BFB (75-120)	12DCE (62-123)	DBFM (80-120)
LCS 180-141386/6	Lab Control Sample	81	100	91	85
LCSD 180-141386/7	Lab Control Sample Dup	83	104	73	91
MB 180-141386/5	Method Blank	108	94	83	104

Surrogate Legend

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DBFM (80-120)	TOL (80-120)	BFB (75-120)	12DCE (62-123)
600-111073-1	FT 5180-05.06.2015	117	102	90	81

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (10-150)	2FP (25-132)	FBP (38-130)	TBP (10-148)	TPH (53-134)	PHL (27-123)
600-111073-2	OT 25319-05.06.2015	0 X	0 X	0 X	0 X	0 X	0 X
600-111073-3	OT 25134-05.06.2015	0 X	0 X	0 X	0 X	0 X	0 X
LCS 600-162200/2-A	Lab Control Sample	85	78	74	78	78	78
MB 600-162200/1-A	Method Blank	81	81	77	76	84	79

TestAmerica Houston

Surrogate Summary

Client: CB&I Federal Services LLC
 Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Surrogate Legend

NBZ = Nitrobenzene-d5
 2FP = 2-Fluorophenol
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol
 TPH = Terphenyl-d14
 PHL = Phenol-d5 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (35-130)	2FP (10-130)	FBP (41-130)	TBP (12-138)	TPH (43-130)	PHL (10-130)
LCS 600-161954/2-A	Lab Control Sample	93	54	85	92	93	35
MB 600-161954/1-A	Method Blank	86	48	84	83	95	29

Surrogate Legend

NBZ = Nitrobenzene-d5
 2FP = 2-Fluorophenol
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol
 TPH = Terphenyl-d14
 PHL = Phenol-d5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		PHL (10-130)	NBZ (35-130)	2FP (10-130)	FBP (41-130)	TBP (12-138)	TPH (43-130)
600-111073-2	OT 25319-05.06.2015	62	104	74	84	85	91
600-111073-2 MS	OT 25319-05.06.2015	59	83	67	83	90	114
600-111073-3	OT 25134-05.06.2015	61	82	73	81	84	89
600-111073-3 MS	OT 25134-05.06.2015	59	90	73	85	90	81
LB 600-161929/1-C	Method Blank	64	111	76	85	85	97
LB 600-161930/1-C	Method Blank	53	80	71	74	65	91

Surrogate Legend

PHL = Phenol-d5
 NBZ = Nitrobenzene-d5
 2FP = 2-Fluorophenol
 FBP = 2-Fluorobiphenyl
 TBP = 2,4,6-Tribromophenol
 TPH = Terphenyl-d14

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (24-150)	2FP (10-130)	FBP (38-133)	TBP (19-150)	TPH (35-150)	PHL (10-130)
600-111073-1	FT 5180-05.06.2015	87	70	78	101	96	61
LCS 600-162047/2-A	Lab Control Sample	77	79	77	92	86	80
LCSD 600-162047/5-A	Lab Control Sample Dup	86	87	85	104	91	87

TestAmerica Houston

Surrogate Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (24-150)	2FP (10-130)	FBP (38-133)	TBP (19-150)	TPH (35-150)	PHL (10-130)
MB 600-162047/1-A	Method Blank	82	83	75	79	85	87

Surrogate Legend

NBZ = Nitrobenzene-d5

2FP = 2-Fluorophenol

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol

TPH = Terphenyl-d14

PHL = Phenol-d5 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (35-130)	2FP (10-130)	FBP (41-130)	TBP (12-138)	PHL (10-130)	TPH (43-130)
LCS 600-162046/2-A	Lab Control Sample	88	80	81	85	80	90
MB 600-162046/1-A	Method Blank	73	74	75	69	72	88

Surrogate Legend

NBZ = Nitrobenzene-d5

2FP = 2-Fluorophenol

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol

PHL = Phenol-d5 (Surr)

TPH = Terphenyl-d14

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (35-130)	2FP (10-130)	FBP (41-130)	TBP (12-138)	TPH (43-130)	PHL (10-130)
600-111073-1	FT 5180-05.06.2015	68	67	74	73	73	65
600-111073-1 MS	FT 5180-05.06.2015	77	58	76	78	77	49
LB 600-162014/1-C	Method Blank	66	58	65	68	77	47

Surrogate Legend

NBZ = Nitrobenzene-d5

2FP = 2-Fluorophenol

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol

TPH = Terphenyl-d14

PHL = Phenol-d5 (Surr)

TestAmerica Houston

Surrogate Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (70-130)
600-111073-2 - DL	OT 25319-05.06.2015	0 X
600-111073-3 - DL	OT 25134-05.06.2015	0 X
LCS 600-161959/2-A	Lab Control Sample	119
LCSD 600-161959/3-A	Lab Control Sample Dup	118
MB 600-161959/1-A	Method Blank	122

Surrogate Legend

OTPH = o-Terphenyl

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (70-130)
600-111073-1	FT 5180-05.06.2015	106
LCS 600-161978/2-A	Lab Control Sample	112
LCSD 600-161978/3-A	Lab Control Sample Dup	112
MB 600-161978/1-A	Method Blank	107

Surrogate Legend

OTPH = o-Terphenyl

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 180-141386/5

Matrix: Water

Analysis Batch: 141386

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Butanone (MEK)	0.00108	U	0.00500	0.00108	mg/L			05/13/15 11:37	1
Benzene	0.000989	U	0.00500	0.000989	mg/L			05/13/15 11:37	1
Carbon tetrachloride	0.00108	U	0.00500	0.00108	mg/L			05/13/15 11:37	1
1,2-Dichloroethane	0.000959	U	0.00500	0.000959	mg/L			05/13/15 11:37	1
Chlorobenzene	0.000526	U	0.00500	0.000526	mg/L			05/13/15 11:37	1
1,1-Dichloroethene	0.00107	U	0.00500	0.00107	mg/L			05/13/15 11:37	1
Chloroform	0.00101	U	0.00500	0.00101	mg/L			05/13/15 11:37	1
Tetrachloroethylene	0.000825	U	0.00500	0.000825	mg/L			05/13/15 11:37	1
Trichloroethylene	0.000801	U	0.00500	0.000801	mg/L			05/13/15 11:37	1
Vinyl chloride	0.00129	U	0.00500	0.00129	mg/L			05/13/15 11:37	1

MB **MB**

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	108		80 - 120		05/13/15 11:37	1
4-Bromofluorobenzene (Surr)	94		75 - 120		05/13/15 11:37	1
1,2-Dichloroethane-d4 (Surr)	83		62 - 123		05/13/15 11:37	1
Dibromofluoromethane (Surr)	104		80 - 120		05/13/15 11:37	1

Lab Sample ID: LCS 180-141386/6

Matrix: Water

Analysis Batch: 141386

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
2-Butanone (MEK)	0.0400	0.02865		mg/L		72	31 - 139
Benzene	0.0400	0.04383		mg/L		110	80 - 120
Carbon tetrachloride	0.0400	0.04159		mg/L		104	63 - 139
1,2-Dichloroethane	0.0400	0.03579		mg/L		89	63 - 140
Chlorobenzene	0.0400	0.04027		mg/L		101	83 - 120
1,1-Dichloroethene	0.0400	0.03933		mg/L		98	69 - 127
Chloroform	0.0400	0.03955		mg/L		99	77 - 119
Tetrachloroethylene	0.0400	0.03550		mg/L		89	78 - 126
Trichloroethylene	0.0400	0.04040		mg/L		101	80 - 120
Vinyl chloride	0.0400	0.03880		mg/L		97	57 - 128

LCS **LCS**

Surrogate	MB	MB	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	81		80 - 120
4-Bromofluorobenzene (Surr)	100		75 - 120
1,2-Dichloroethane-d4 (Surr)	91		62 - 123
Dibromofluoromethane (Surr)	85		80 - 120

Lab Sample ID: LCSD 180-141386/7

Matrix: Water

Analysis Batch: 141386

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
2-Butanone (MEK)	0.0400	0.03097		mg/L		77	31 - 139	8	35
Benzene	0.0400	0.03865		mg/L		97	80 - 120	13	20
Carbon tetrachloride	0.0400	0.04442		mg/L		111	63 - 139	7	25

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 180-141386/7

Matrix: Water

Analysis Batch: 141386

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
1,2-Dichloroethane	0.0400	0.03747		mg/L	94	63 - 140	5	25	
Chlorobenzene	0.0400	0.04083		mg/L	102	83 - 120	1	20	
1,1-Dichloroethene	0.0400	0.03951		mg/L	99	69 - 127	0	20	
Chloroform	0.0400	0.04206		mg/L	105	77 - 119	6	20	
Tetrachloroethene	0.0400	0.03711		mg/L	93	78 - 126	4	25	
Trichloroethene	0.0400	0.04191		mg/L	105	80 - 120	4	20	
Vinyl chloride	0.0400	0.04474		mg/L	112	57 - 128	14	26	

LCSD LCSD

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	83		80 - 120
4-Bromofluorobenzene (Surr)	104		75 - 120
1,2-Dichloroethane-d4 (Surr)	73		62 - 123
Dibromofluoromethane (Surr)	91		80 - 120

Lab Sample ID: LCS 180-141542/13

Matrix: Solid

Analysis Batch: 141542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits		
	Added	Result	Qualifier						
2-Butanone (MEK)	0.400	0.3166		mg/L	79	31 - 139			
Benzene	0.400	0.4287		mg/L	107	80 - 120			
Carbon tetrachloride	0.400	0.4777		mg/L	119	63 - 139			
1,2-Dichloroethane	0.400	0.3615		mg/L	90	63 - 140			
Chlorobenzene	0.400	0.4540		mg/L	114	83 - 120			
1,1-Dichloroethene	0.400	0.4117		mg/L	103	69 - 127			
Chloroform	0.400	0.4345		mg/L	109	77 - 119			
Tetrachloroethene	0.400	0.4775		mg/L	119	78 - 126			
Trichloroethene	0.400	0.4492		mg/L	112	80 - 120			
Vinyl chloride	0.400	0.3320		mg/L	83	57 - 128			

LCS LCS

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	88		62 - 123
Dibromofluoromethane (Surr)	98		80 - 120

Lab Sample ID: MB 600-161916/3-A

Matrix: Solid

Analysis Batch: 161757

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161916

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromomethane	0.104	U	1.25	0.104	mg/Kg		05/07/15 15:00	05/07/15 18:33	1
Acetone	0.208	U	1.25	0.208	mg/Kg		05/07/15 15:00	05/07/15 18:33	1
Carbon disulfide	0.0688	U	1.25	0.0688	mg/Kg		05/07/15 15:00	05/07/15 18:33	1
Chloroethane	0.175	U	1.25	0.175	mg/Kg		05/07/15 15:00	05/07/15 18:33	1
Chloromethane	0.208	U	1.25	0.208	mg/Kg		05/07/15 15:00	05/07/15 18:33	1
cis-1,2-Dichloroethene	0.104	U	0.625	0.104	mg/Kg		05/07/15 15:00	05/07/15 18:33	1
2-Butanone (MEK)	0.238	U	1.25	0.238	mg/Kg		05/07/15 15:00	05/07/15 18:33	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-161916/3-A

Matrix: Solid

Analysis Batch: 161757

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161916

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed		
Chlorobromomethane	0.223	U	0.625	0.223	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Carbon tetrachloride	0.141	U	0.625	0.141	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Benzene	0.0788	U	0.625	0.0788	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
1,2-Dichloroethane	0.113	U	0.625	0.113	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
1,1-Dichloroethene	0.153	U	0.625	0.153	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
1,2-Dichloroethene, Total	0.238	U	1.25	0.238	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
1,1-Dichloroethane	0.109	U	0.625	0.109	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
1,2-Dichloropropane	0.0888	U	0.625	0.0888	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Chloroform	0.0825	U	0.625	0.0825	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Bromodichloromethane	0.0825	U	0.625	0.0825	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Methylene Chloride	0.274	U	1.25	0.274	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
cis-1,3-Dichloropropene	0.0675	U	0.625	0.0675	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
4-Methyl-2-pentanone (MIBK)	0.184	U	1.25	0.184	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Tetrachloroethene	0.0888	U	0.625	0.0888	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
2-Hexanone	0.126	U	1.25	0.126	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Toluene	0.173	U	0.625	0.173	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Dibromochloromethane	0.118	U	0.625	0.118	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Chlorobenzene	0.120	U	0.625	0.120	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
trans-1,2-Dichloroethene	0.143	U	0.625	0.143	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Ethylbenzene	0.128	U	0.625	0.128	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
trans-1,3-Dichloropropene	0.0725	U	0.625	0.0725	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
1,1,1-Trichloroethane	0.0925	U	0.625	0.0925	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
m-Xylene & p-Xylene	0.190	U	0.625	0.190	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
1,1,2-Trichloroethane	0.0913	U	5.00	0.0913	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
o-Xylene	0.141	U	0.625	0.141	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Trichloroethene	0.175	U	0.625	0.175	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Styrene	0.0888	U	0.625	0.0888	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Vinyl acetate	0.116	U	1.25	0.116	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Bromoform	0.171	U	0.625	0.171	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Vinyl chloride	0.113	U	1.25	0.113	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
1,1,2,2-Tetrachloroethane	0.109	U	0.625	0.109	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	
Xylenes, Total	0.141	U	0.625	0.141	mg/Kg	05/07/15 15:00	05/07/15 18:33		1	

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
			57 - 140	68 - 140			
4-Bromofluorobenzene	104				05/07/15 15:00	05/07/15 18:33	1
Dibromofluoromethane	88				05/07/15 15:00	05/07/15 18:33	1
1,2-Dichloroethane-d4 (Surr)	85				05/07/15 15:00	05/07/15 18:33	1
Toluene-d8 (Surr)	102				05/07/15 15:00	05/07/15 18:33	1

Lab Sample ID: LCS 600-161916/1-A

Matrix: Solid

Analysis Batch: 161757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161916

Analyte	Spike Added	LCS			Prepared	Analyzed	%Rec.
		Result	Qualifier	Unit			
Bromomethane	6.25	5.184		mg/Kg	83	37 - 147	
Acetone	12.5	14.20		mg/Kg	114	13 - 150	
Carbon disulfide	6.25	5.324		mg/Kg	85	51 - 141	
Chloroethane	6.25	5.294		mg/Kg	85	40 - 150	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-161916/1-A

Matrix: Solid

Analysis Batch: 161757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161916

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloromethane	6.25	5.019		mg/Kg		80	44 - 141
cis-1,2-Dichloroethene	6.25	6.328		mg/Kg		101	70 - 130
2-Butanone (MEK)	12.5	13.94		mg/Kg		111	33 - 150
Chlorobromomethane	6.25	6.397		mg/Kg		102	70 - 132
Carbon tetrachloride	6.25	6.251		mg/Kg		100	58 - 130
Benzene	6.25	6.322		mg/Kg		101	70 - 131
1,2-Dichloroethane	6.25	6.630		mg/Kg		106	58 - 137
1,1-Dichloroethene	6.25	5.488		mg/Kg		88	62 - 142
1,2-Dichloroethene, Total	12.5	12.21		mg/Kg		98	70 - 130
1,1-Dichloroethane	6.25	6.082		mg/Kg		97	63 - 140
1,2-Dichloropropane	6.25	6.356		mg/Kg		102	70 - 130
Chloroform	6.25	6.216		mg/Kg		99	69 - 130
Bromodichloromethane	6.25	6.952		mg/Kg		111	67 - 138
Methylene Chloride	6.25	5.954		mg/Kg		95	61 - 150
cis-1,3-Dichloropropene	6.25	5.567		mg/Kg		89	65 - 130
4-Methyl-2-pentanone (MIBK)	12.5	14.44		mg/Kg		116	21 - 150
Tetrachloroethene	6.25	5.054		mg/Kg		81	43 - 143
2-Hexanone	12.5	12.91		mg/Kg		103	35 - 150
Toluene	6.25	5.612		mg/Kg		90	67 - 130
Dibromochloromethane	6.25	5.746		mg/Kg		92	65 - 134
Chlorobenzene	6.25	5.764		mg/Kg		92	63 - 131
trans-1,2-Dichloroethene	6.25	5.885		mg/Kg		94	69 - 130
Ethylbenzene	6.25	5.718		mg/Kg		91	66 - 130
trans-1,3-Dichloropropene	6.25	5.842		mg/Kg		93	70 - 130
1,1,1-Trichloroethane	6.25	6.256		mg/Kg		100	59 - 130
m-Xylene & p-Xylene	6.25	5.753		mg/Kg		92	64 - 130
1,1,2-Trichloroethane	6.25	5.970		mg/Kg		96	67 - 134
o-Xylene	6.25	5.824		mg/Kg		93	62 - 130
Trichloroethene	6.25	6.113		mg/Kg		98	63 - 135
Styrene	6.25	5.580		mg/Kg		89	65 - 133
Vinyl acetate	12.5	12.76		mg/Kg		102	40 - 150
Bromoform	6.25	6.443		mg/Kg		103	43 - 150
Vinyl chloride	6.25	5.049		mg/Kg		81	40 - 148
1,1,2,2-Tetrachloroethane	6.25	6.511		mg/Kg		104	61 - 138
Xylenes, Total	12.5	11.58		mg/Kg		93	63 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	121		57 - 140
Dibromofluoromethane	96		68 - 140
1,2-Dichloroethane-d4 (Surr)	95		61 - 130
Toluene-d8 (Surr)	97		50 - 130

Lab Sample ID: LCSD 600-161916/2-A

Matrix: Solid

Analysis Batch: 161757

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 161916

%Rec.

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Bromomethane	6.25	5.183		mg/Kg		83	37 - 147	0	30

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-161916/2-A

Matrix: Solid

Analysis Batch: 161757

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 161916

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
Acetone	12.5	12.39		mg/Kg	99	13 - 150	14	30	
Carbon disulfide	6.25	5.067		mg/Kg	81	51 - 141	5	30	
Chloroethane	6.25	5.395		mg/Kg	86	40 - 150	2	30	
Chloromethane	6.25	5.392		mg/Kg	86	44 - 141	7	30	
cis-1,2-Dichloroethene	6.25	5.992		mg/Kg	96	70 - 130	5	30	
2-Butanone (MEK)	12.5	13.59		mg/Kg	109	33 - 150	3	30	
Chlorobromomethane	6.25	5.898		mg/Kg	94	70 - 132	8	30	
Carbon tetrachloride	6.25	6.092		mg/Kg	97	58 - 130	3	30	
Benzene	6.25	5.961		mg/Kg	95	70 - 131	6	30	
1,2-Dichloroethane	6.25	6.235		mg/Kg	100	58 - 137	6	30	
1,1-Dichloroethene	6.25	5.182		mg/Kg	83	62 - 142	6	30	
1,2-Dichloroethene, Total	12.5	11.57		mg/Kg	93	70 - 130	5	30	
1,1-Dichloroethane	6.25	5.856		mg/Kg	94	63 - 140	4	30	
1,2-Dichloropropane	6.25	6.227		mg/Kg	100	70 - 130	2	30	
Chloroform	6.25	5.838		mg/Kg	93	69 - 130	6	30	
Bromodichloromethane	6.25	6.555		mg/Kg	105	67 - 138	6	30	
Methylene Chloride	6.25	5.303		mg/Kg	85	61 - 150	12	30	
cis-1,3-Dichloropropene	6.25	5.684		mg/Kg	91	65 - 130	2	30	
4-Methyl-2-pentanone (MIBK)	12.5	13.33		mg/Kg	107	21 - 150	8	30	
Tetrachloroethene	6.25	5.320		mg/Kg	85	43 - 143	5	30	
2-Hexanone	12.5	12.90		mg/Kg	103	35 - 150	0	30	
Toluene	6.25	5.569		mg/Kg	89	67 - 130	1	30	
Dibromochloromethane	6.25	5.639		mg/Kg	90	65 - 134	2	30	
Chlorobenzene	6.25	5.739		mg/Kg	92	63 - 131	0	30	
trans-1,2-Dichloroethene	6.25	5.578		mg/Kg	89	69 - 130	5	30	
Ethylbenzene	6.25	6.065		mg/Kg	97	66 - 130	6	30	
trans-1,3-Dichloropropene	6.25	5.995		mg/Kg	96	70 - 130	3	30	
1,1,1-Trichloroethane	6.25	6.144		mg/Kg	98	59 - 130	2	30	
m-Xylene & p-Xylene	6.25	5.808		mg/Kg	93	64 - 130	1	30	
1,1,2-Trichloroethane	6.25	5.883		mg/Kg	94	67 - 134	1	30	
o-Xylene	6.25	5.739		mg/Kg	92	62 - 130	1	30	
Trichloroethene	6.25	5.898		mg/Kg	94	63 - 135	4	30	
Styrene	6.25	5.677		mg/Kg	91	65 - 133	2	30	
Vinyl acetate	12.5	12.20		mg/Kg	98	40 - 150	5	30	
Bromoform	6.25	5.643		mg/Kg	90	43 - 150	13	30	
Vinyl chloride	6.25	5.551		mg/Kg	89	40 - 148	9	30	
1,1,2,2-Tetrachloroethane	6.25	5.851		mg/Kg	94	61 - 138	11	30	
Xylenes, Total	12.5	11.55		mg/Kg	92	63 - 130	0	30	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	110		57 - 140
Dibromofluoromethane	93		68 - 140
1,2-Dichloroethane-d4 (Surr)	89		61 - 130
Toluene-d8 (Surr)	100		50 - 130

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-162021/6

Matrix: Solid

Analysis Batch: 162021

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Bromomethane	0.000830	U	0.0100	0.000830	mg/Kg			05/09/15 12:53	1
Acetone	0.00166	U	0.0100	0.00166	mg/Kg			05/09/15 12:53	1
Carbon disulfide	0.000550	U	0.0100	0.000550	mg/Kg			05/09/15 12:53	1
Chloroethane	0.00140	U	0.0100	0.00140	mg/Kg			05/09/15 12:53	1
Chloromethane	0.00166	U	0.0100	0.00166	mg/Kg			05/09/15 12:53	1
cis-1,2-Dichloroethene	0.000830	U	0.00500	0.000830	mg/Kg			05/09/15 12:53	1
2-Butanone (MEK)	0.00190	U	0.0100	0.00190	mg/Kg			05/09/15 12:53	1
Chlorobromomethane	0.00178	U	0.00500	0.00178	mg/Kg			05/09/15 12:53	1
Carbon tetrachloride	0.00113	U	0.00500	0.00113	mg/Kg			05/09/15 12:53	1
Benzene	0.000630	U	0.00500	0.000630	mg/Kg			05/09/15 12:53	1
1,2-Dichloroethane	0.000900	U	0.00500	0.000900	mg/Kg			05/09/15 12:53	1
1,1-Dichloroethene	0.00122	U	0.00500	0.00122	mg/Kg			05/09/15 12:53	1
1,2-Dichloroethene, Total	0.00190	U	0.0100	0.00190	mg/Kg			05/09/15 12:53	1
1,1-Dichloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/09/15 12:53	1
1,2-Dichloropropane	0.000710	U	0.00500	0.000710	mg/Kg			05/09/15 12:53	1
Chloroform	0.000660	U	0.00500	0.000660	mg/Kg			05/09/15 12:53	1
Bromodichloromethane	0.000660	U	0.00500	0.000660	mg/Kg			05/09/15 12:53	1
Methylene Chloride	0.00219	U	0.0100	0.00219	mg/Kg			05/09/15 12:53	1
cis-1,3-Dichloropropene	0.000540	U	0.00500	0.000540	mg/Kg			05/09/15 12:53	1
4-Methyl-2-pentanone (MIBK)	0.00147	U	0.0100	0.00147	mg/Kg			05/09/15 12:53	1
Tetrachloroethene	0.000710	U	0.00500	0.000710	mg/Kg			05/09/15 12:53	1
2-Hexanone	0.00101	U	0.0100	0.00101	mg/Kg			05/09/15 12:53	1
Toluene	0.00138	U	0.00500	0.00138	mg/Kg			05/09/15 12:53	1
Dibromochloromethane	0.000940	U	0.00500	0.000940	mg/Kg			05/09/15 12:53	1
Chlorobenzene	0.000960	U	0.00500	0.000960	mg/Kg			05/09/15 12:53	1
trans-1,2-Dichloroethene	0.00114	U	0.00500	0.00114	mg/Kg			05/09/15 12:53	1
Ethylbenzene	0.00102	U	0.00500	0.00102	mg/Kg			05/09/15 12:53	1
trans-1,3-Dichloropropene	0.000580	U	0.00500	0.000580	mg/Kg			05/09/15 12:53	1
1,1,1-Trichloroethane	0.000740	U	0.00500	0.000740	mg/Kg			05/09/15 12:53	1
m-Xylene & p-Xylene	0.00152	U	0.00500	0.00152	mg/Kg			05/09/15 12:53	1
1,1,2-Trichloroethane	0.000730	U	0.0400	0.000730	mg/Kg			05/09/15 12:53	1
o-Xylene	0.00113	U	0.00500	0.00113	mg/Kg			05/09/15 12:53	1
Trichloroethene	0.00140	U	0.00500	0.00140	mg/Kg			05/09/15 12:53	1
Styrene	0.000710	U	0.00500	0.000710	mg/Kg			05/09/15 12:53	1
Vinyl acetate	0.000930	U	0.0100	0.000930	mg/Kg			05/09/15 12:53	1
Bromoform	0.00137	U	0.00500	0.00137	mg/Kg			05/09/15 12:53	1
Vinyl chloride	0.000900	U	0.0100	0.000900	mg/Kg			05/09/15 12:53	1
1,1,2,2-Tetrachloroethane	0.000870	U	0.00500	0.000870	mg/Kg			05/09/15 12:53	1
Xylenes, Total	0.00113	U	0.00500	0.00113	mg/Kg			05/09/15 12:53	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene			87		57 - 140		05/09/15 12:53	1
Dibromofluoromethane			95		68 - 140		05/09/15 12:53	1
1,2-Dichloroethane-d4 (Surr)			92		61 - 130		05/09/15 12:53	1
Toluene-d8 (Surr)			89		50 - 130		05/09/15 12:53	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-162021/3

Matrix: Solid

Analysis Batch: 162021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	0.0500	0.04794		mg/Kg	96	37 - 147	
Acetone	0.100	0.08093		mg/Kg	81	13 - 150	
Carbon disulfide	0.0500	0.05016		mg/Kg	100	51 - 141	
Chloroethane	0.0500	0.05464		mg/Kg	109	40 - 150	
Chloromethane	0.0500	0.04812		mg/Kg	96	44 - 141	
cis-1,2-Dichloroethene	0.0500	0.04723		mg/Kg	94	70 - 130	
2-Butanone (MEK)	0.100	0.07437		mg/Kg	74	33 - 150	
Chlorobromomethane	0.0500	0.04214		mg/Kg	84	70 - 132	
Carbon tetrachloride	0.0500	0.04555		mg/Kg	91	58 - 130	
Benzene	0.0500	0.04737		mg/Kg	95	70 - 131	
1,2-Dichloroethane	0.0500	0.04118		mg/Kg	82	58 - 137	
1,1-Dichloroethene	0.0500	0.05152		mg/Kg	103	62 - 142	
1,2-Dichloroethene, Total	0.100	0.09538		mg/Kg	95	70 - 130	
1,1-Dichloroethane	0.0500	0.04666		mg/Kg	93	63 - 140	
1,2-Dichloropropane	0.0500	0.04265		mg/Kg	85	70 - 130	
Chloroform	0.0500	0.04560		mg/Kg	91	69 - 130	
Bromodichloromethane	0.0500	0.04394		mg/Kg	88	67 - 138	
Methylene Chloride	0.0500	0.04144		mg/Kg	83	61 - 150	
cis-1,3-Dichloropropene	0.0500	0.04667		mg/Kg	93	65 - 130	
4-Methyl-2-pentanone (MIBK)	0.100	0.07288		mg/Kg	73	21 - 150	
Tetrachloroethene	0.0500	0.04378		mg/Kg	88	43 - 143	
2-Hexanone	0.100	0.08137		mg/Kg	81	35 - 150	
Toluene	0.0500	0.04932		mg/Kg	99	67 - 130	
Dibromochloromethane	0.0500	0.04512		mg/Kg	90	65 - 134	
Chlorobenzene	0.0500	0.04640		mg/Kg	93	63 - 131	
trans-1,2-Dichloroethene	0.0500	0.04815		mg/Kg	96	69 - 130	
Ethylbenzene	0.0500	0.04954		mg/Kg	99	66 - 130	
trans-1,3-Dichloropropene	0.0500	0.04670		mg/Kg	93	70 - 130	
1,1,1-Trichloroethane	0.0500	0.04757		mg/Kg	95	59 - 130	
m-Xylene & p-Xylene	0.0500	0.04788		mg/Kg	96	64 - 130	
1,1,2-Trichloroethane	0.0500	0.03844 J		mg/Kg	77	67 - 134	
o-Xylene	0.0500	0.04931		mg/Kg	99	62 - 130	
Trichloroethene	0.0500	0.04804		mg/Kg	96	63 - 135	
Styrene	0.0500	0.04677		mg/Kg	94	65 - 133	
Vinyl acetate	0.100	0.07560		mg/Kg	76	40 - 150	
Bromoform	0.0500	0.04501		mg/Kg	90	43 - 150	
Vinyl chloride	0.0500	0.04606		mg/Kg	92	40 - 148	
1,1,2,2-Tetrachloroethane	0.0500	0.04090		mg/Kg	82	61 - 138	
Xylenes, Total	0.100	0.09719		mg/Kg	97	63 - 130	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	94		57 - 140
Dibromofluoromethane	72		68 - 140
1,2-Dichloroethane-d4 (Surr)	67		61 - 130
Toluene-d8 (Surr)	82		50 - 130

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-162021/1004

Matrix: Solid

Analysis Batch: 162021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	0.0500	0.05004		mg/Kg		100	37 - 147	4	30
Acetone	0.100	0.09138		mg/Kg		91	13 - 150	12	30
Carbon disulfide	0.0500	0.05598		mg/Kg		112	51 - 141	11	30
Chloroethane	0.0500	0.05669		mg/Kg		113	40 - 150	4	30
Chloromethane	0.0500	0.04979		mg/Kg		100	44 - 141	3	30
cis-1,2-Dichloroethene	0.0500	0.05319		mg/Kg		106	70 - 130	12	30
2-Butanone (MEK)	0.100	0.09774		mg/Kg		98	33 - 150	27	30
Chlorobromomethane	0.0500	0.05056		mg/Kg		101	70 - 132	18	30
Carbon tetrachloride	0.0500	0.05185		mg/Kg		104	58 - 130	13	30
Benzene	0.0500	0.05254		mg/Kg		105	70 - 131	10	30
1,2-Dichloroethane	0.0500	0.04634		mg/Kg		93	58 - 137	12	30
1,1-Dichloroethene	0.0500	0.05724		mg/Kg		114	62 - 142	11	30
1,2-Dichloroethene, Total	0.100	0.1069		mg/Kg		107	70 - 130	11	30
1,1-Dichloroethane	0.0500	0.05005		mg/Kg		100	63 - 140	7	30
1,2-Dichloropropane	0.0500	0.05080		mg/Kg		102	70 - 130	17	30
Chloroform	0.0500	0.05138		mg/Kg		103	69 - 130	12	30
Bromodichloromethane	0.0500	0.04850		mg/Kg		97	67 - 138	10	30
Methylene Chloride	0.0500	0.04454		mg/Kg		89	61 - 150	7	30
cis-1,3-Dichloropropene	0.0500	0.05078		mg/Kg		102	65 - 130	8	30
4-Methyl-2-pentanone (MIBK)	0.100	0.07953		mg/Kg		80	21 - 150	9	30
Tetrachloroethene	0.0500	0.04425		mg/Kg		88	43 - 143	1	30
2-Hexanone	0.100	0.07550		mg/Kg		76	35 - 150	7	30
Toluene	0.0500	0.05128		mg/Kg		103	67 - 130	4	30
Dibromochloromethane	0.0500	0.05013		mg/Kg		100	65 - 134	11	30
Chlorobenzene	0.0500	0.05009		mg/Kg		100	63 - 131	8	30
trans-1,2-Dichloroethene	0.0500	0.05370		mg/Kg		107	69 - 130	11	30
Ethylbenzene	0.0500	0.05411		mg/Kg		108	66 - 130	9	30
trans-1,3-Dichloropropene	0.0500	0.04859		mg/Kg		97	70 - 130	4	30
1,1,1-Trichloroethane	0.0500	0.05081		mg/Kg		102	59 - 130	7	30
m-Xylene & p-Xylene	0.0500	0.05274		mg/Kg		105	64 - 130	10	30
1,1,2-Trichloroethane	0.0500	0.04693		mg/Kg		94	67 - 134	20	30
o-Xylene	0.0500	0.05394		mg/Kg		108	62 - 130	9	30
Trichloroethene	0.0500	0.05220		mg/Kg		104	63 - 135	8	30
Styrene	0.0500	0.05144		mg/Kg		103	65 - 133	10	30
Vinyl acetate	0.100	0.08461		mg/Kg		85	40 - 150	11	30
Bromoform	0.0500	0.04501		mg/Kg		90	43 - 150	0	30
Vinyl chloride	0.0500	0.05025		mg/Kg		101	40 - 148	9	30
1,1,2,2-Tetrachloroethane	0.0500	0.04315		mg/Kg		86	61 - 138	5	30
Xylenes, Total	0.100	0.1067		mg/Kg		107	63 - 130	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	94		57 - 140
Dibromofluoromethane	86		68 - 140
1,2-Dichloroethane-d4 (Surr)	83		61 - 130
Toluene-d8 (Surr)	80		50 - 130

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-257275/4

Matrix: Water

Analysis Batch: 257275

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloromethane	0.000830	U	0.00100	0.000830	mg/L			05/15/15 11:25	1
Vinyl chloride	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
Bromomethane	0.000980	U	0.00100	0.000980	mg/L			05/15/15 11:25	1
Chloroethane	0.000760	U	0.00100	0.000760	mg/L			05/15/15 11:25	1
1,1-Dichloroethene	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
trans-1,2-Dichloroethene	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
Acetone	0.0100	U	0.0250	0.0100	mg/L			05/15/15 11:25	1
Carbon disulfide	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
Methylene Chloride	0.00300	U	0.00500	0.00300	mg/L			05/15/15 11:25	1
Vinyl acetate	0.00200	U	0.0250	0.00200	mg/L			05/15/15 11:25	1
cis-1,2-Dichloroethene	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
1,2-Dichloroethene, Total	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
2-Butanone (MEK)	0.00260	U	0.0250	0.00260	mg/L			05/15/15 11:25	1
Chlorobromomethane	0.000520	U	0.00100	0.000520	mg/L			05/15/15 11:25	1
Carbon tetrachloride	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
Benzene	0.000380	U	0.00100	0.000380	mg/L			05/15/15 11:25	1
1,2-Dichloroethane	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
Trichloroethene	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
1,1,1-Trichloroethane	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
1,1-Dichloroethane	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
1,2-Dichloropropane	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
Chloroform	0.000600	U	0.00100	0.000600	mg/L			05/15/15 11:25	1
Bromodichloromethane	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
cis-1,3-Dichloropropene	0.000500	U	0.00500	0.000500	mg/L			05/15/15 11:25	1
4-Methyl-2-pentanone (MIBK)	0.00180	U	0.0250	0.00180	mg/L			05/15/15 11:25	1
Toluene	0.000700	U	0.00100	0.000700	mg/L			05/15/15 11:25	1
trans-1,3-Dichloropropene	0.000500	U	0.00500	0.000500	mg/L			05/15/15 11:25	1
1,1,2-Trichloroethane	0.000500	U	0.00500	0.000500	mg/L			05/15/15 11:25	1
Tetrachloroethene	0.000580	U	0.00100	0.000580	mg/L			05/15/15 11:25	1
2-Hexanone	0.00310	U	0.0250	0.00310	mg/L			05/15/15 11:25	1
Dibromochloromethane	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
Chlorobenzene	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
Ethylbenzene	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
m-Xylene & p-Xylene	0.00160	U	0.00500	0.00160	mg/L			05/15/15 11:25	1
Xylenes, Total	0.000600	U	0.00500	0.000600	mg/L			05/15/15 11:25	1
o-Xylene	0.000600	U	0.00500	0.000600	mg/L			05/15/15 11:25	1
Styrene	0.00100	U	0.00100	0.00100	mg/L			05/15/15 11:25	1
Bromoform	0.000710	U	0.00500	0.000710	mg/L			05/15/15 11:25	1
1,1,2,2-Tetrachloroethane	0.000500	U	0.00100	0.000500	mg/L			05/15/15 11:25	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			101		67 - 134			05/15/15 11:25	1
Dibromofluoromethane			104		81 - 121			05/15/15 11:25	1
Toluene-d8 (Surr)			99		80 - 120			05/15/15 11:25	1
4-Bromofluorobenzene			102		78 - 118			05/15/15 11:25	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-257275/1002

Matrix: Water

Analysis Batch: 257275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	0.0500	0.04416		mg/L	88	49 - 141	
Vinyl chloride	0.0500	0.04335		mg/L	87	60 - 128	
Bromomethane	0.0500	0.04401		mg/L	88	10 - 150	
Chloroethane	0.0500	0.04409		mg/L	88	37 - 150	
1,1-Dichloroethene	0.0500	0.05628		mg/L	113	50 - 134	
trans-1,2-Dichloroethene	0.0500	0.05442		mg/L	109	70 - 126	
Acetone	0.200	0.1843		mg/L	92	24 - 150	
Carbon disulfide	0.0500	0.05776		mg/L	116	41 - 140	
Methylene Chloride	0.0500	0.05582		mg/L	112	70 - 130	
Vinyl acetate	0.100	0.09199		mg/L	92	54 - 140	
cis-1,2-Dichloroethene	0.0500	0.05097		mg/L	102	78 - 122	
2-Butanone (MEK)	0.200	0.2293		mg/L	115	62 - 137	
Chlorobromomethane	0.0500	0.05506		mg/L	110	80 - 120	
Carbon tetrachloride	0.0500	0.05691		mg/L	114	46 - 141	
Benzene	0.0500	0.04988		mg/L	100	79 - 120	
1,2-Dichloroethane	0.0500	0.05132		mg/L	103	69 - 128	
Trichloroethene	0.0500	0.05237		mg/L	105	77 - 120	
1,1,1-Trichloroethane	0.0500	0.05264		mg/L	105	66 - 130	
1,1-Dichloroethane	0.0500	0.05145		mg/L	103	75 - 126	
1,2-Dichloropropane	0.0500	0.05051		mg/L	101	77 - 126	
Chloroform	0.0500	0.05082		mg/L	102	73 - 122	
Bromodichloromethane	0.0500	0.05381		mg/L	108	75 - 127	
cis-1,3-Dichloropropene	0.0500	0.05314		mg/L	106	70 - 122	
4-Methyl-2-pentanone (MIBK)	0.200	0.2108		mg/L	105	63 - 150	
Toluene	0.0500	0.04949		mg/L	99	80 - 120	
trans-1,3-Dichloropropene	0.0500	0.05298		mg/L	106	64 - 120	
1,1,2-Trichloroethane	0.0500	0.05024		mg/L	100	80 - 120	
Tetrachloroethene	0.0500	0.05219		mg/L	104	76 - 124	
2-Hexanone	0.200	0.2114		mg/L	106	60 - 150	
Dibromochloromethane	0.0500	0.05987		mg/L	120	63 - 125	
Chlorobenzene	0.0500	0.05100		mg/L	102	80 - 120	
Ethylbenzene	0.0500	0.05008		mg/L	100	80 - 120	
m-Xylene & p-Xylene	0.0500	0.05024		mg/L	100	70 - 130	
Xylenes, Total	0.100	0.10005		mg/L	100	70 - 130	
o-Xylene	0.0500	0.05025		mg/L	101	70 - 130	
Styrene	0.0500	0.05154		mg/L	103	79 - 124	
Bromoform	0.0500	0.05386		mg/L	108	65 - 121	
1,1,2,2-Tetrachloroethane	0.0500	0.05221		mg/L	104	68 - 132	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		67 - 134
Dibromofluoromethane	106		81 - 121
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene	95		78 - 118

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 180-141421/8-A

Matrix: Solid

Analysis Batch: 141542

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Butanone (MEK)	0.0108	U	0.0500	0.0108	mg/L			05/14/15 12:50	1
Benzene	0.00989	U	0.0500	0.00989	mg/L			05/14/15 12:50	1
Carbon tetrachloride	0.0108	U	0.0500	0.0108	mg/L			05/14/15 12:50	1
1,2-Dichloroethane	0.00959	U	0.0500	0.00959	mg/L			05/14/15 12:50	1
Chlorobenzene	0.00526	U	0.0500	0.00526	mg/L			05/14/15 12:50	1
1,1-Dichloroethene	0.0107	U	0.0500	0.0107	mg/L			05/14/15 12:50	1
Chloroform	0.0101	U	0.0500	0.0101	mg/L			05/14/15 12:50	1
Tetrachloroethylene	0.00825	U	0.0500	0.00825	mg/L			05/14/15 12:50	1
Trichloroethylene	0.00801	U	0.0500	0.00801	mg/L			05/14/15 12:50	1
Vinyl chloride	0.0129	U	0.0500	0.0129	mg/L			05/14/15 12:50	1

Surrogate	LB	LB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Toluene-d8 (Surr)	108		80 - 120				05/14/15 12:50	1
4-Bromofluorobenzene (Surr)	82		75 - 120				05/14/15 12:50	1
1,2-Dichloroethane-d4 (Surr)	73		62 - 123				05/14/15 12:50	1
Dibromofluoromethane (Surr)	88		80 - 120				05/14/15 12:50	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-161954/1-A

Matrix: Solid

Analysis Batch: 162038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 161954

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Pyridine	0.00216	U	0.0100	0.00216	mg/L			05/08/15 08:48	05/11/15 14:36	1	
1,4-Dichlorobenzene	0.00178	U	0.0100	0.00178	mg/L			05/08/15 08:48	05/11/15 14:36	1	
2,4-Dinitrotoluene	0.00263	U	0.0100	0.00263	mg/L			05/08/15 08:48	05/11/15 14:36	1	
Hexachlorobenzene	0.00259	U	0.0100	0.00259	mg/L			05/08/15 08:48	05/11/15 14:36	1	
Hexachloroethane	0.00220	U	0.0100	0.00220	mg/L			05/08/15 08:48	05/11/15 14:36	1	
Hexachlorobutadiene	0.00212	U	0.0100	0.00212	mg/L			05/08/15 08:48	05/11/15 14:36	1	
Nitrobenzene	0.00248	U	0.0100	0.00248	mg/L			05/08/15 08:48	05/11/15 14:36	1	
2-Methylphenol	0.00181	U	0.0100	0.00181	mg/L			05/08/15 08:48	05/11/15 14:36	1	
3 & 4 Methylphenol	0.00188	U	0.0200	0.00188	mg/L			05/08/15 08:48	05/11/15 14:36	1	
Pentachlorophenol	0.00462	U	0.0500	0.00462	mg/L			05/08/15 08:48	05/11/15 14:36	1	
2,4,5-Trichlorophenol	0.00271	U	0.0100	0.00271	mg/L			05/08/15 08:48	05/11/15 14:36	1	
2,4,6-Trichlorophenol	0.00259	U	0.0100	0.00259	mg/L			05/08/15 08:48	05/11/15 14:36	1	

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
	Result	Qualifier							
Nitrobenzene-d5	86		35 - 130				05/08/15 08:48	05/11/15 14:36	1
2-Fluorophenol	48		10 - 130				05/08/15 08:48	05/11/15 14:36	1
2-Fluorobiphenyl	84		41 - 130				05/08/15 08:48	05/11/15 14:36	1
2,4,6-Tribromophenol	83		12 - 138				05/08/15 08:48	05/11/15 14:36	1
Terphenyl-d14	95		43 - 130				05/08/15 08:48	05/11/15 14:36	1
Phenol-d5	29		10 - 130				05/08/15 08:48	05/11/15 14:36	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-161954/2-A

Matrix: Solid

Analysis Batch: 162038

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
			J	mg/L		10	10 - 130
Pyridine	0.0500	0.005223	J	mg/L			
1,4-Dichlorobenzene	0.0500	0.03971		mg/L	79	57 - 130	
2,4-Dinitrotoluene	0.0500	0.04372		mg/L	87	60 - 130	
Hexachlorobenzene	0.0500	0.04528		mg/L	91	61 - 130	
Hexachloroethane	0.0500	0.04182		mg/L	84	52 - 130	
Hexachlorobutadiene	0.0500	0.04258		mg/L	85	52 - 130	
Nitrobenzene	0.0500	0.04412		mg/L	88	55 - 130	
2-Methylphenol	0.0500	0.03513		mg/L	70	39 - 130	
3 & 4 Methylphenol	0.0500	0.03274		mg/L	65	29 - 130	
Pentachlorophenol	0.100	0.08394		mg/L	84	29 - 141	
2,4,5-Trichlorophenol	0.0500	0.04225		mg/L	84	51 - 130	
2,4,6-Trichlorophenol	0.0500	0.04223		mg/L	84	49 - 130	

Surrogate	LCS	LCS	Limits
	Result	%Recovery	Qualifier
Nitrobenzene-d5	93		35 - 130
2-Fluorophenol	54		10 - 130
2-Fluorobiphenyl	85		41 - 130
2,4,6-Tribromophenol	92		12 - 138
Terphenyl-d14	93		43 - 130
Phenol-d5	35		10 - 130

Lab Sample ID: MB 600-162046/1-A

Matrix: Water

Analysis Batch: 162143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162046

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyridine	0.00216	U	0.0100	0.00216	mg/L		05/11/15 08:15	05/12/15 08:50	1
1,4-Dichlorobenzene	0.00178	U	0.0100	0.00178	mg/L		05/11/15 08:15	05/12/15 08:50	1
2,4-Dinitrotoluene	0.00263	U	0.0100	0.00263	mg/L		05/11/15 08:15	05/12/15 08:50	1
Hexachlorobenzene	0.00259	U	0.0100	0.00259	mg/L		05/11/15 08:15	05/12/15 08:50	1
Hexachloroethane	0.00220	U	0.0100	0.00220	mg/L		05/11/15 08:15	05/12/15 08:50	1
Hexachlorobutadiene	0.00212	U	0.0100	0.00212	mg/L		05/11/15 08:15	05/12/15 08:50	1
Nitrobenzene	0.00248	U	0.0100	0.00248	mg/L		05/11/15 08:15	05/12/15 08:50	1
2-Methylphenol	0.00181	U	0.0100	0.00181	mg/L		05/11/15 08:15	05/12/15 08:50	1
3 & 4 Methylphenol	0.00188	U	0.0200	0.00188	mg/L		05/11/15 08:15	05/12/15 08:50	1
Pentachlorophenol	0.00462	U	0.0500	0.00462	mg/L		05/11/15 08:15	05/12/15 08:50	1
2,4,5-Trichlorophenol	0.00271	U	0.0100	0.00271	mg/L		05/11/15 08:15	05/12/15 08:50	1
2,4,6-Trichlorophenol	0.00259	U	0.0100	0.00259	mg/L		05/11/15 08:15	05/12/15 08:50	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier				
Nitrobenzene-d5	73		35 - 130			1
2-Fluorophenol	74		10 - 130			1
2-Fluorobiphenyl	75		41 - 130			1
2,4,6-Tribromophenol	69		12 - 138			1
Terphenyl-d14	88		43 - 130			1
Phenol-d5 (Surr)	72		10 - 130			1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-162046/2-A

Matrix: Water

Analysis Batch: 162143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
				mg/L		73	Limits
Pyridine	0.0500	0.03651					10 - 130
1,4-Dichlorobenzene	0.0500	0.03916		mg/L		78	57 - 130
2,4-Dinitrotoluene	0.0500	0.04134		mg/L		83	60 - 130
Hexachlorobenzene	0.0500	0.04237		mg/L		85	61 - 130
Hexachloroethane	0.0500	0.04116		mg/L		82	52 - 130
Hexachlorobutadiene	0.0500	0.04027		mg/L		81	52 - 130
Nitrobenzene	0.0500	0.04193		mg/L		84	55 - 130
2-Methylphenol	0.0500	0.03916		mg/L		78	39 - 130
3 & 4 Methylphenol	0.0500	0.03905		mg/L		78	29 - 130
Pentachlorophenol	0.100	0.08046		mg/L		80	29 - 141
2,4,5-Trichlorophenol	0.0500	0.03840		mg/L		77	51 - 130
2,4,6-Trichlorophenol	0.0500	0.03879		mg/L		78	49 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	88		35 - 130
2-Fluorophenol	80		10 - 130
2-Fluorobiphenyl	81		41 - 130
2,4,6-Tribromophenol	85		12 - 138
Terphenyl-d14	90		43 - 130
Phenol-d5 (Surr)	80		10 - 130

Lab Sample ID: MB 600-162047/1-A

Matrix: Water

Analysis Batch: 162142

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162047

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	0.00227	U	0.0100	0.00227	mg/L		05/11/15 08:16	05/12/15 09:50	1
Acenaphthylene	0.00229	U	0.0100	0.00229	mg/L		05/11/15 08:16	05/12/15 09:50	1
Anthracene	0.00249	U	0.0100	0.00249	mg/L		05/11/15 08:16	05/12/15 09:50	1
Benzidine	0.0179	U	0.0500	0.0179	mg/L		05/11/15 08:16	05/12/15 09:50	1
Benzo[a]anthracene	0.00211	U	0.0100	0.00211	mg/L		05/11/15 08:16	05/12/15 09:50	1
Benzo[b]fluoranthene	0.00250	U	0.0100	0.00250	mg/L		05/11/15 08:16	05/12/15 09:50	1
Benzo[k]fluoranthene	0.00299	U	0.0100	0.00299	mg/L		05/11/15 08:16	05/12/15 09:50	1
Benzo[g,h,i]perylene	0.00211	U	0.0100	0.00211	mg/L		05/11/15 08:16	05/12/15 09:50	1
Benzo[a]pyrene	0.00246	U	0.0100	0.00246	mg/L		05/11/15 08:16	05/12/15 09:50	1
Bis(2-chloroethoxy)methane	0.00291	U	0.0100	0.00291	mg/L		05/11/15 08:16	05/12/15 09:50	1
Bis(2-chloroethyl)ether	0.00263	U	0.0100	0.00263	mg/L		05/11/15 08:16	05/12/15 09:50	1
Bis(2-ethylhexyl) phthalate	0.00226	U	0.0100	0.00226	mg/L		05/11/15 08:16	05/12/15 09:50	1
4-Bromophenyl phenyl ether	0.00250	U	0.0100	0.00250	mg/L		05/11/15 08:16	05/12/15 09:50	1
Butyl benzyl phthalate	0.00236	U	0.0100	0.00236	mg/L		05/11/15 08:16	05/12/15 09:50	1
4-Chloroaniline	0.00211	U	0.0100	0.00211	mg/L		05/11/15 08:16	05/12/15 09:50	1
2-Chloronaphthalene	0.00281	U	0.0100	0.00281	mg/L		05/11/15 08:16	05/12/15 09:50	1
4-Chlorophenyl phenyl ether	0.00219	U	0.0100	0.00219	mg/L		05/11/15 08:16	05/12/15 09:50	1
Carbazole	0.00297	U	0.0100	0.00297	mg/L		05/11/15 08:16	05/12/15 09:50	1
Chrysene	0.00206	U	0.0100	0.00206	mg/L		05/11/15 08:16	05/12/15 09:50	1
Di-n-butyl phthalate	0.00209	U	0.0100	0.00209	mg/L		05/11/15 08:16	05/12/15 09:50	1
Dibenz(a,h)anthracene	0.00248	U	0.0100	0.00248	mg/L		05/11/15 08:16	05/12/15 09:50	1
Dibenzofuran	0.00228	U	0.0100	0.00228	mg/L		05/11/15 08:16	05/12/15 09:50	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-162047/1-A

Matrix: Water

Analysis Batch: 162142

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162047

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	0.00241	U	0.0100		0.00241	mg/L		05/11/15 08:16	05/12/15 09:50		1
1,3-Dichlorobenzene	0.00264	U	0.0100		0.00264	mg/L		05/11/15 08:16	05/12/15 09:50		1
1,4-Dichlorobenzene	0.00194	U	0.0100		0.00194	mg/L		05/11/15 08:16	05/12/15 09:50		1
3,3'-Dichlorobenzidine	0.00237	U	0.0100		0.00237	mg/L		05/11/15 08:16	05/12/15 09:50		1
Diethyl phthalate	0.00259	U	0.0100		0.00259	mg/L		05/11/15 08:16	05/12/15 09:50		1
Dimethyl phthalate	0.00247	U	0.0100		0.00247	mg/L		05/11/15 08:16	05/12/15 09:50		1
2,4-Dinitrotoluene	0.00211	U	0.0100		0.00211	mg/L		05/11/15 08:16	05/12/15 09:50		1
2,6-Dinitrotoluene	0.00279	U	0.0100		0.00279	mg/L		05/11/15 08:16	05/12/15 09:50		1
Di-n-octyl phthalate	0.00187	U	0.0100		0.00187	mg/L		05/11/15 08:16	05/12/15 09:50		1
Fluoranthene	0.00244	U	0.0100		0.00244	mg/L		05/11/15 08:16	05/12/15 09:50		1
Fluorene	0.00211	U	0.0100		0.00211	mg/L		05/11/15 08:16	05/12/15 09:50		1
Hexachlorobenzene	0.00328	U	0.0100		0.00328	mg/L		05/11/15 08:16	05/12/15 09:50		1
Hexachlorocyclopentadiene	0.00232	U	0.0100		0.00232	mg/L		05/11/15 08:16	05/12/15 09:50		1
Hexachloroethane	0.00329	U	0.0100		0.00329	mg/L		05/11/15 08:16	05/12/15 09:50		1
Hexachlorobutadiene	0.00257	U	0.0100		0.00257	mg/L		05/11/15 08:16	05/12/15 09:50		1
Indeno[1,2,3-cd]pyrene	0.00309	U	0.0100		0.00309	mg/L		05/11/15 08:16	05/12/15 09:50		1
Isophorone	0.00264	U	0.0100		0.00264	mg/L		05/11/15 08:16	05/12/15 09:50		1
2-Methylnaphthalene	0.00258	U	0.0100		0.00258	mg/L		05/11/15 08:16	05/12/15 09:50		1
Naphthalene	0.00220	U	0.0100		0.00220	mg/L		05/11/15 08:16	05/12/15 09:50		1
2-Nitroaniline	0.00380	U	0.0100		0.00380	mg/L		05/11/15 08:16	05/12/15 09:50		1
3-Nitroaniline	0.00185	U	0.0100		0.00185	mg/L		05/11/15 08:16	05/12/15 09:50		1
4-Nitroaniline	0.00234	U	0.0100		0.00234	mg/L		05/11/15 08:16	05/12/15 09:50		1
Nitrobenzene	0.00259	U	0.0100		0.00259	mg/L		05/11/15 08:16	05/12/15 09:50		1
N-Nitrosodimethylamine	0.00139	U	0.0100		0.00139	mg/L		05/11/15 08:16	05/12/15 09:50		1
N-Nitrosodiphenylamine	0.00201	U	0.0100		0.00201	mg/L		05/11/15 08:16	05/12/15 09:50		1
N-Nitrosodi-n-propylamine	0.00319	U	0.0100		0.00319	mg/L		05/11/15 08:16	05/12/15 09:50		1
Phenanthrene	0.00224	U	0.0100		0.00224	mg/L		05/11/15 08:16	05/12/15 09:50		1
Pyrene	0.00300	U	0.0100		0.00300	mg/L		05/11/15 08:16	05/12/15 09:50		1
1,2,4-Trichlorobenzene	0.00205	U	0.0100		0.00205	mg/L		05/11/15 08:16	05/12/15 09:50		1
Benzyl alcohol	0.00198	U	0.0100		0.00198	mg/L		05/11/15 08:16	05/12/15 09:50		1
4-Chloro-3-methylphenol	0.00197	U	0.0100		0.00197	mg/L		05/11/15 08:16	05/12/15 09:50		1
2-Chlorophenol	0.00219	U	0.0100		0.00219	mg/L		05/11/15 08:16	05/12/15 09:50		1
2-Methylphenol	0.00142	U	0.0100		0.00142	mg/L		05/11/15 08:16	05/12/15 09:50		1
3 & 4 Methylphenol	0.00135	U	0.0100		0.00135	mg/L		05/11/15 08:16	05/12/15 09:50		1
2,4-Dichlorophenol	0.00216	U	0.0100		0.00216	mg/L		05/11/15 08:16	05/12/15 09:50		1
2,4-Dimethylphenol	0.00194	U	0.0100		0.00194	mg/L		05/11/15 08:16	05/12/15 09:50		1
4,6-Dinitro-2-methylphenol	0.00336	U	0.0100		0.00336	mg/L		05/11/15 08:16	05/12/15 09:50		1
2,4-Dinitrophenol	0.00546	U	0.0100		0.00546	mg/L		05/11/15 08:16	05/12/15 09:50		1
2-Nitrophenol	0.00210	U	0.0100		0.00210	mg/L		05/11/15 08:16	05/12/15 09:50		1
4-Nitrophenol	0.00280	U	0.0100		0.00280	mg/L		05/11/15 08:16	05/12/15 09:50		1
Pentachlorophenol	0.00315	U	0.0100		0.00315	mg/L		05/11/15 08:16	05/12/15 09:50		1
Phenol	0.00125	U	0.0100		0.00125	mg/L		05/11/15 08:16	05/12/15 09:50		1
2,4,5-Trichlorophenol	0.00420	U	0.0100		0.00420	mg/L		05/11/15 08:16	05/12/15 09:50		1
2,4,6-Trichlorophenol	0.00332	U	0.0100		0.00332	mg/L		05/11/15 08:16	05/12/15 09:50		1
bis (2-Chloroisopropyl) ether	0.00292	U	0.0100		0.00292	mg/L		05/11/15 08:16	05/12/15 09:50		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	82				24 - 150	05/11/15 08:16	05/12/15 09:50	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-162047/1-A

Matrix: Water

Analysis Batch: 162142

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162047

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol		83			10 - 130	05/11/15 08:16	05/12/15 09:50	1
2-Fluorobiphenyl		75			38 - 133	05/11/15 08:16	05/12/15 09:50	1
2,4,6-Tribromophenol		79			19 - 150	05/11/15 08:16	05/12/15 09:50	1
Terphenyl-d14		85			35 - 150	05/11/15 08:16	05/12/15 09:50	1
Phenol-d5 (Surr)		87			10 - 130	05/11/15 08:16	05/12/15 09:50	1

Lab Sample ID: LCS 600-162047/2-A

Matrix: Water

Analysis Batch: 162142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162047

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier					
Acenaphthene	0.0400	0.02827		mg/L	71	55 - 130		
Acenaphthylene	0.0400	0.02887		mg/L	72	52 - 130		
Anthracene	0.0400	0.03035		mg/L	76	58 - 130		
Benzidine	0.0800	0.0179	U	mg/L	20	10 - 130		
Benzo[a]anthracene	0.0400	0.03097		mg/L	77	59 - 130		
Benzo[b]fluoranthene	0.0400	0.03213		mg/L	80	57 - 130		
Benzo[k]fluoranthene	0.0400	0.03105		mg/L	78	58 - 133		
Benzo[g,h,i]perylene	0.0400	0.03404		mg/L	85	46 - 150		
Benzo[a]pyrene	0.0400	0.03162		mg/L	79	59 - 130		
Bis(2-chloroethoxy)methane	0.0400	0.02876		mg/L	72	52 - 130		
Bis(2-chloroethyl)ether	0.0400	0.02630		mg/L	66	50 - 130		
Bis(2-ethylhexyl) phthalate	0.0400	0.02858		mg/L	71	57 - 137		
4-Bromophenyl phenyl ether	0.0400	0.03278		mg/L	82	52 - 137		
Butyl benzyl phthalate	0.0400	0.02910		mg/L	73	55 - 137		
4-Chloroaniline	0.0400	0.03053		mg/L	76	16 - 139		
2-Chloronaphthalene	0.0400	0.02808		mg/L	70	52 - 130		
4-Chlorophenyl phenyl ether	0.0400	0.03101		mg/L	78	58 - 130		
Carbazole	0.0400	0.03197		mg/L	80	49 - 137		
Chrysene	0.0400	0.03084		mg/L	77	59 - 129		
Di-n-butyl phthalate	0.0400	0.03230		mg/L	81	56 - 141		
Dibenz(a,h)anthracene	0.0400	0.03115		mg/L	78	54 - 138		
Dibenzofuran	0.0400	0.02880		mg/L	72	56 - 130		
1,2-Dichlorobenzene	0.0400	0.02837		mg/L	71	31 - 136		
1,3-Dichlorobenzene	0.0400	0.02873		mg/L	72	26 - 136		
1,4-Dichlorobenzene	0.0400	0.02812		mg/L	70	28 - 136		
3,3'-Dichlorobenzidine	0.0400	0.02839		mg/L	71	19 - 150		
Diethyl phthalate	0.0400	0.03043		mg/L	76	60 - 132		
Dimethyl phthalate	0.0400	0.02948		mg/L	74	58 - 130		
2,4-Dinitrotoluene	0.0400	0.03180		mg/L	80	59 - 133		
2,6-Dinitrotoluene	0.0400	0.03144		mg/L	79	57 - 130		
Di-n-octyl phthalate	0.0400	0.02942		mg/L	74	52 - 148		
Fluoranthene	0.0400	0.03312		mg/L	83	54 - 136		
Fluorene	0.0400	0.02910		mg/L	73	57 - 130		
Hexachlorobenzene	0.0400	0.03209		mg/L	80	49 - 142		
Hexachlorocyclopentadiene	0.0400	0.02556		mg/L	64	10 - 130		
Hexachloroethane	0.0400	0.02932		mg/L	73	26 - 141		
Hexachlorobutadiene	0.0400	0.02911		mg/L	73	29 - 144		

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-162047/2-A

Matrix: Water

Analysis Batch: 162142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162047

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Indeno[1,2,3-cd]pyrene	0.0400	0.03319		mg/L		83	53 - 136
Isophorone	0.0400	0.02845		mg/L		71	57 - 121
2-Methylnaphthalene	0.0400	0.03025		mg/L		76	48 - 130
Naphthalene	0.0400	0.02850		mg/L		71	48 - 130
2-Nitroaniline	0.0400	0.03073		mg/L		77	50 - 136
3-Nitroaniline	0.0400	0.05006		mg/L		125	20 - 144
4-Nitroaniline	0.0400	0.06181	*	mg/L		155	21 - 150
Nitrobenzene	0.0400	0.02838		mg/L		71	58 - 130
N-Nitrosodimethylamine	0.0400	0.02986		mg/L		75	18 - 140
N-Nitrosodiphenylamine	0.0796	0.06153		mg/L		77	53 - 126
N-Nitrosodi-n-propylamine	0.0400	0.02826		mg/L		71	52 - 137
Phenanthrene	0.0400	0.03174		mg/L		79	57 - 130
Pyrene	0.0400	0.02978		mg/L		74	58 - 130
1,2,4-Trichlorobenzene	0.0400	0.02827		mg/L		71	38 - 134
Benzyl alcohol	0.0400	0.03316		mg/L		83	30 - 133
4-Chloro-3-methylphenol	0.0400	0.03117		mg/L		78	57 - 130
2-Chlorophenol	0.0400	0.02893		mg/L		72	53 - 130
2-Methylphenol	0.0400	0.03016		mg/L		75	38 - 136
3 & 4 Methylphenol	0.0400	0.02847		mg/L		71	42 - 123
2,4-Dichlorophenol	0.0400	0.02790		mg/L		70	53 - 130
2,4-Dimethylphenol	0.0400	0.03027		mg/L		76	53 - 130
4,6-Dinitro-2-methylphenol	0.0800	0.06888		mg/L		86	40 - 145
2,4-Dinitrophenol	0.0800	0.06064		mg/L		76	23 - 138
2-Nitrophenol	0.0400	0.02913		mg/L		73	53 - 130
4-Nitrophenol	0.0800	0.07463		mg/L		93	10 - 130
Pentachlorophenol	0.0800	0.05611		mg/L		70	29 - 130
Phenol	0.0400	0.02984		mg/L		75	10 - 130
2,4,5-Trichlorophenol	0.0400	0.02856		mg/L		71	49 - 130
2,4,6-Trichlorophenol	0.0400	0.03349		mg/L		84	53 - 130
bis (2-Chloroisopropyl) ether	0.0400	0.02736		mg/L		68	47 - 139

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	77		24 - 150
2-Fluorophenol	79		10 - 130
2-Fluorobiphenyl	77		38 - 133
2,4,6-Tribromophenol	92		19 - 150
Terphenyl-d14	86		35 - 150
Phenol-d5 (Surr)	80		10 - 130

Lab Sample ID: LCSD 600-162047/5-A

Matrix: Water

Analysis Batch: 162142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 162047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene	0.0400	0.03094		mg/L		77	55 - 130	9	20
Acenaphthylene	0.0400	0.03035		mg/L		76	52 - 130	5	20
Anthracene	0.0400	0.03208		mg/L		80	58 - 130	6	20
Benzidine	0.0800	0.01832	J	mg/L		23	10 - 130	14	40

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-162047/5-A

Matrix: Water

Analysis Batch: 162142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 162047

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
Benzo[a]anthracene	0.0400	0.03370		mg/L	84	59 - 130	8	20	
Benzo[b]fluoranthene	0.0400	0.03422		mg/L	86	57 - 130	6	20	
Benzo[k]fluoranthene	0.0400	0.03379		mg/L	84	58 - 133	8	20	
Benzo[g,h,i]perylene	0.0400	0.03613		mg/L	90	46 - 150	6	20	
Benzo[a]pyrene	0.0400	0.03348		mg/L	84	59 - 130	6	20	
Bis(2-chloroethoxy)methane	0.0400	0.03056		mg/L	76	52 - 130	6	20	
Bis(2-chloroethyl)ether	0.0400	0.02960		mg/L	74	50 - 130	12	20	
Bis(2-ethylhexyl) phthalate	0.0400	0.03157		mg/L	79	57 - 137	10	20	
4-Bromophenyl phenyl ether	0.0400	0.03425		mg/L	86	52 - 137	4	20	
Butyl benzyl phthalate	0.0400	0.03130		mg/L	78	55 - 137	7	20	
4-Chloroaniline	0.0400	0.03337		mg/L	83	16 - 139	9	20	
2-Chloronaphthalene	0.0400	0.03102		mg/L	78	52 - 130	10	20	
4-Chlorophenyl phenyl ether	0.0400	0.03227		mg/L	81	58 - 130	4	20	
Carbazole	0.0400	0.03426		mg/L	86	49 - 137	7	20	
Chrysene	0.0400	0.03387		mg/L	85	59 - 129	9	20	
Di-n-butyl phthalate	0.0400	0.03309		mg/L	83	56 - 141	2	20	
Dibenz(a,h)anthracene	0.0400	0.03657		mg/L	91	54 - 138	16	20	
Dibenzofuran	0.0400	0.03007		mg/L	75	56 - 130	4	20	
1,2-Dichlorobenzene	0.0400	0.02973		mg/L	74	31 - 136	5	20	
1,3-Dichlorobenzene	0.0400	0.03136		mg/L	78	26 - 136	9	20	
1,4-Dichlorobenzene	0.0400	0.03090		mg/L	77	28 - 136	9	20	
3,3'-Dichlorobenzidine	0.0400	0.03149		mg/L	79	19 - 150	10	40	
Diethyl phthalate	0.0400	0.03379		mg/L	84	60 - 132	10	20	
Dimethyl phthalate	0.0400	0.03228		mg/L	81	58 - 130	9	20	
2,4-Dinitrotoluene	0.0400	0.03291		mg/L	82	59 - 133	3	20	
2,6-Dinitrotoluene	0.0400	0.03373		mg/L	84	57 - 130	7	20	
Di-n-octyl phthalate	0.0400	0.03110		mg/L	78	52 - 148	6	20	
Fluoranthene	0.0400	0.03465		mg/L	87	54 - 136	5	20	
Fluorene	0.0400	0.03031		mg/L	76	57 - 130	4	20	
Hexachlorobenzene	0.0400	0.03449		mg/L	86	49 - 142	7	20	
Hexachlorocyclopentadiene	0.0400	0.02754		mg/L	69	10 - 130	7	20	
Hexachloroethane	0.0400	0.03054		mg/L	76	26 - 141	4	20	
Hexachlorobutadiene	0.0400	0.03092		mg/L	77	29 - 144	6	20	
Indeno[1,2,3-cd]pyrene	0.0400	0.03464		mg/L	87	53 - 136	4	20	
Isophorone	0.0400	0.03171		mg/L	79	57 - 121	11	20	
2-Methylnaphthalene	0.0400	0.03274		mg/L	82	48 - 130	8	20	
Naphthalene	0.0400	0.03059		mg/L	76	48 - 130	7	20	
2-Nitroaniline	0.0400	0.03278		mg/L	82	50 - 136	6	20	
3-Nitroaniline	0.0400	0.05478		mg/L	137	20 - 144	9	20	
4-Nitroaniline	0.0400	0.06402 *		mg/L	160	21 - 150	4	20	
Nitrobenzene	0.0400	0.02834		mg/L	71	58 - 130	0	20	
N-Nitrosodimethylamine	0.0400	0.03292		mg/L	82	18 - 140	10	20	
N-Nitrosodiphenylamine	0.0796	0.06236		mg/L	78	53 - 126	1	20	
N-Nitrosodi-n-propylamine	0.0400	0.03199		mg/L	80	52 - 137	12	20	
Phenanthrene	0.0400	0.03266		mg/L	82	57 - 130	3	20	
Pyrene	0.0400	0.03157		mg/L	79	58 - 130	6	40	
1,2,4-Trichlorobenzene	0.0400	0.03003		mg/L	75	38 - 134	6	20	
Benzyl alcohol	0.0400	0.03219		mg/L	80	30 - 133	3	40	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-162047/5-A

Matrix: Water

Analysis Batch: 162142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 162047

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
4-Chloro-3-methylphenol	0.0400	0.03183		mg/L	80	57 - 130	2	20	
2-Chlorophenol	0.0400	0.03240		mg/L	81	53 - 130	11	20	
2-Methylphenol	0.0400	0.03245		mg/L	81	38 - 136	7	20	
3 & 4 Methylphenol	0.0400	0.03362		mg/L	84	42 - 123	17	20	
2,4-Dichlorophenol	0.0400	0.02915		mg/L	73	53 - 130	4	20	
2,4-Dimethylphenol	0.0400	0.03410		mg/L	85	53 - 130	12	20	
4,6-Dinitro-2-methylphenol	0.0800	0.07154		mg/L	89	40 - 145	4	20	
2,4-Dinitrophenol	0.0800	0.06600		mg/L	83	23 - 138	8	20	
2-Nitrophenol	0.0400	0.03211		mg/L	80	53 - 130	10	20	
4-Nitrophenol	0.0800	0.08234		mg/L	103	10 - 130	10	20	
Pentachlorophenol	0.0800	0.05576		mg/L	70	29 - 130	1	20	
Phenol	0.0400	0.03210		mg/L	80	10 - 130	7	20	
2,4,5-Trichlorophenol	0.0400	0.03135		mg/L	78	49 - 130	9	20	
2,4,6-Trichlorophenol	0.0400	0.03543		mg/L	89	53 - 130	6	20	
bis (2-Chloroisopropyl) ether	0.0400	0.03019		mg/L	75	47 - 139	10	20	

LCSD **LCSD**

Surrogate **%Recovery** **Qualifier** **Limits**

Nitrobenzene-d5	86		24 - 150
2-Fluorophenol	87		10 - 130
2-Fluorobiphenyl	85		38 - 133
2,4,6-Tribromophenol	104		19 - 150
Terphenyl-d14	91		35 - 150
Phenol-d5 (Surr)	87		10 - 130

Lab Sample ID: MB 600-162200/1-A

Matrix: Solid

Analysis Batch: 162230

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162200

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	0.189	U	0.330	0.189	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Acenaphthylene	0.193	U	0.330	0.193	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Anthracene	0.207	U	0.330	0.207	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Benzidine	0.00902	U	1.60	0.00902	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Benzo[a]anthracene	0.207	U	0.330	0.207	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Benzo[b]fluoranthene	0.0193	U	0.330	0.0193	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Benzo[k]fluoranthene	0.0294	U	0.330	0.0294	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Benzo[g,h,i]perylene	0.175	U	0.330	0.175	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Benzo[a]pyrene	0.185	U	0.330	0.185	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Bis(2-chloroethoxy)methane	0.186	U	0.330	0.186	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Bis(2-chloroethyl)ether	0.0330	U	0.330	0.0330	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Bis(2-ethylhexyl) phthalate	0.200	U	0.330	0.200	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
4-Bromophenyl phenyl ether	0.200	U	0.330	0.200	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Butyl benzyl phthalate	0.201	U	0.330	0.201	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
4-Chloroaniline	0.0660	U	0.330	0.0660	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
2-Chloronaphthalene	0.215	U	0.330	0.215	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
4-Chlorophenyl phenyl ether	0.198	U	0.330	0.198	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Carbazole	0.204	U	0.330	0.204	mg/Kg		05/12/15 12:57	05/13/15 08:12	1
Chrysene	0.202	U	0.330	0.202	mg/Kg		05/12/15 12:57	05/13/15 08:12	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-162200/1-A

Matrix: Solid

Analysis Batch: 162230

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162200

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Di-n-butyl phthalate	0.213	U	0.330	0.213	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	1
Dibenz(a,h)anthracene	0.190	U	0.330	0.190	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	2
Dibenzofuran	0.197	U	0.330	0.197	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	3
1,2-Dichlorobenzene	0.0263	U	0.330	0.0263	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	4
1,3-Dichlorobenzene	0.178	U	0.330	0.178	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	5
1,4-Dichlorobenzene	0.0231	U	0.330	0.0231	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	6
3,3'-Dichlorobenzidine	0.0636	U	0.660	0.0636	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	7
Diethyl phthalate	0.204	U	0.330	0.204	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	8
Dimethyl phthalate	0.200	U	0.330	0.200	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	9
2,4-Dinitrotoluene	0.0329	U	0.330	0.0329	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	10
2,6-Dinitrotoluene	0.210	U	0.330	0.210	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	11
Di-n-octyl phthalate	0.214	U	0.330	0.214	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	12
Fluoranthene	0.211	U	0.330	0.211	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	13
Fluorene	0.203	U	0.330	0.203	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	14
Hexachlorobenzene	0.208	U	0.330	0.208	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	1
Hexachlorocyclopentadiene	0.0223	U	0.330	0.0223	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	2
Hexachloroethane	0.0299	U	0.330	0.0299	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	3
Hexachlorobutadiene	0.0339	U	0.330	0.0339	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	4
Indeno[1,2,3-cd]pyrene	0.181	U	0.330	0.181	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	5
Isophorone	0.194	U	0.330	0.194	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	6
2-Methylnaphthalene	0.189	U	0.330	0.189	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	7
Naphthalene	0.0193	U	0.330	0.0193	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	8
2-Nitroaniline	0.195	U	1.60	0.195	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	9
3-Nitroaniline	0.212	U	1.60	0.212	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	10
4-Nitroaniline	0.180	U	1.60	0.180	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	11
Nitrobenzene	0.0474	U	0.330	0.0474	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	12
N-Nitrosodimethylamine	0.0955	U	0.330	0.0955	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	13
N-Nitrosodiphenylamine	0.0315	U	0.330	0.0315	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	14
N-Nitrosodi-n-propylamine	0.0286	U	0.330	0.0286	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	1
Phenanthrene	0.203	U	0.330	0.203	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	2
Pyrene	0.221	U	0.330	0.221	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	3
1,2,4-Trichlorobenzene	0.211	U	0.330	0.211	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	4
Benzyl alcohol	0.0624	U	0.330	0.0624	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	5
4-Chloro-3-methylphenol	0.192	U	0.330	0.192	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	6
2-Chlorophenol	0.0233	U	0.330	0.0233	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	7
2-Methylphenol	0.0379	U	0.330	0.0379	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	8
3 & 4 Methylphenol	0.0301	U	0.660	0.0301	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	9
2,4-Dichlorophenol	0.183	U	0.330	0.183	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	10
2,4-Dimethylphenol	0.0636	U	0.330	0.0636	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	11
4,6-Dinitro-2-methylphenol	0.207	U	1.60	0.207	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	12
2,4-Dinitrophenol	0.128	U	1.60	0.128	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	13
2-Nitrophenol	0.180	U	0.330	0.180	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	14
4-Nitrophenol	0.180	U	1.60	0.180	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	1
Pentachlorophenol	0.0221	U	1.60	0.0221	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	2
Phenol	0.0374	U	0.330	0.0374	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	3
2,4,5-Trichlorophenol	0.0621	U	0.330	0.0621	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	4
2,4,6-Trichlorophenol	0.180	U	0.330	0.180	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	5
bis (2-Chloroisopropyl) ether	0.0346	U	0.330	0.0346	mg/Kg	05/12/15 12:57	05/13/15 08:12	1	6

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-162200/1-A

Matrix: Solid

Analysis Batch: 162230

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162200

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5			81		10 - 150	05/12/15 12:57	05/13/15 08:12	1
2-Fluorophenol			81		25 - 132	05/12/15 12:57	05/13/15 08:12	1
2-Fluorobiphenyl			77		38 - 130	05/12/15 12:57	05/13/15 08:12	1
2,4,6-Tribromophenol			76		10 - 148	05/12/15 12:57	05/13/15 08:12	1
Terphenyl-d14			84		53 - 134	05/12/15 12:57	05/13/15 08:12	1
Phenol-d5 (Surr)			79		27 - 123	05/12/15 12:57	05/13/15 08:12	1

Lab Sample ID: LCS 600-162200/2-A

Matrix: Solid

Analysis Batch: 162230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162200

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier					
Acenaphthene	3.33	2.495		mg/Kg		75	58 - 130	
Acenaphthylene	3.33	2.509		mg/Kg		75	56 - 130	
Anthracene	3.33	2.593		mg/Kg		78	58 - 130	
Benzidine	6.67	2.705		mg/Kg		41	10 - 135	
Benzo[a]anthracene	3.33	2.560		mg/Kg		77	49 - 130	
Benzo[b]fluoranthene	3.33	2.511		mg/Kg		75	58 - 130	
Benzo[k]fluoranthene	3.33	2.613		mg/Kg		78	56 - 130	
Benzo[g,h,i]perylene	3.33	2.475		mg/Kg		74	49 - 135	
Benzo[a]pyrene	3.33	2.587		mg/Kg		78	58 - 130	
Bis(2-chloroethoxy)methane	3.33	2.746		mg/Kg		82	49 - 130	
Bis(2-chloroethyl)ether	3.33	2.568		mg/Kg		77	44 - 130	
Bis(2-ethylhexyl) phthalate	3.33	2.838		mg/Kg		85	47 - 133	
4-Bromophenyl phenyl ether	3.33	2.698		mg/Kg		81	56 - 130	
Butyl benzyl phthalate	3.33	2.807		mg/Kg		84	43 - 135	
4-Chloroaniline	3.33	2.464		mg/Kg		74	42 - 130	
2-Chloronaphthalene	3.33	2.492		mg/Kg		75	51 - 130	
4-Chlorophenyl phenyl ether	3.33	2.480		mg/Kg		74	57 - 130	
Carbazole	3.33	2.524		mg/Kg		76	47 - 131	
Chrysene	3.33	2.626		mg/Kg		79	50 - 130	
Di-n-butyl phthalate	3.33	2.598		mg/Kg		78	54 - 130	
Dibenz(a,h)anthracene	3.33	2.491		mg/Kg		75	48 - 130	
Dibenzofuran	3.33	2.464		mg/Kg		74	58 - 130	
1,2-Dichlorobenzene	3.33	2.407		mg/Kg		72	44 - 130	
1,3-Dichlorobenzene	3.33	2.362		mg/Kg		71	43 - 130	
1,4-Dichlorobenzene	3.33	2.392		mg/Kg		72	46 - 130	
3,3'-Dichlorobenzidine	3.33	2.210		mg/Kg		66	41 - 130	
Diethyl phthalate	3.33	2.506		mg/Kg		75	55 - 130	
Dimethyl phthalate	3.33	2.494		mg/Kg		75	58 - 130	
2,4-Dinitrotoluene	3.33	2.531		mg/Kg		76	53 - 130	
2,6-Dinitrotoluene	3.33	2.582		mg/Kg		77	53 - 130	
Di-n-octyl phthalate	3.33	2.836		mg/Kg		85	45 - 135	
Fluoranthene	3.33	2.457		mg/Kg		74	56 - 130	
Fluorene	3.33	2.478		mg/Kg		74	52 - 147	
Hexachlorobenzene	3.33	2.692		mg/Kg		81	59 - 130	
Hexachlorocyclopentadiene	3.33	2.684		mg/Kg		81	33 - 130	
Hexachloroethane	3.33	2.520		mg/Kg		76	36 - 130	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-162200/2-A

Matrix: Solid

Analysis Batch: 162230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162200

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Hexachlorobutadiene	3.33	2.528		mg/Kg	76	49 - 130	
Indeno[1,2,3-cd]pyrene	3.33	2.494		mg/Kg	75	41 - 130	
Isophorone	3.33	2.847		mg/Kg	85	49 - 130	
2-Methylnaphthalene	3.33	2.666		mg/Kg	80	54 - 130	
Naphthalene	3.33	2.571		mg/Kg	77	49 - 130	
2-Nitroaniline	3.33	2.764		mg/Kg	83	49 - 149	
3-Nitroaniline	3.33	2.368		mg/Kg	71	45 - 133	
4-Nitroaniline	3.33	3.303		mg/Kg	99	48 - 139	
Nitrobenzene	3.33	2.797		mg/Kg	84	47 - 130	
N-Nitrosodimethylamine	3.33	2.418		mg/Kg	73	29 - 130	
N-Nitrosodiphenylamine	6.64	5.130		mg/Kg	77	47 - 130	
N-Nitrosodi-n-propylamine	3.33	2.726		mg/Kg	82	43 - 130	
Phenanthrene	3.33	2.524		mg/Kg	76	58 - 130	
Pyrene	3.33	2.634		mg/Kg	79	48 - 131	
1,2,4-Trichlorobenzene	3.33	2.613		mg/Kg	78	45 - 130	
Benzyl alcohol	3.33	2.639		mg/Kg	79	25 - 141	
4-Chloro-3-methylphenol	3.33	2.825		mg/Kg	85	54 - 130	
2-Chlorophenol	3.33	2.574		mg/Kg	77	48 - 130	
2-Methylphenol	3.33	2.614		mg/Kg	78	46 - 130	
3 & 4 Methylphenol	3.33	2.658		mg/Kg	80	44 - 130	
2,4-Dichlorophenol	3.33	2.609		mg/Kg	78	56 - 130	
2,4-Dimethylphenol	3.33	2.897		mg/Kg	87	46 - 130	
4,6-Dinitro-2-methylphenol	6.67	5.480		mg/Kg	82	45 - 130	
2,4-Dinitrophenol	6.67	5.262		mg/Kg	79	25 - 130	
2-Nitrophenol	3.33	2.715		mg/Kg	81	50 - 130	
4-Nitrophenol	6.67	5.219		mg/Kg	78	20 - 132	
Pentachlorophenol	6.67	5.319		mg/Kg	80	34 - 130	
Phenol	3.33	2.583		mg/Kg	77	33 - 130	
2,4,5-Trichlorophenol	3.33	2.581		mg/Kg	77	59 - 136	
2,4,6-Trichlorophenol	3.33	2.608		mg/Kg	78	59 - 134	
bis (2-Chloroisopropyl) ether	3.33	2.714		mg/Kg	81	39 - 130	

LCS **LCS**

Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	85		10 - 150
2-Fluorophenol	78		25 - 132
2-Fluorobiphenyl	74		38 - 130
2,4,6-Tribromophenol	78		10 - 148
Terphenyl-d14	78		53 - 134
Phenol-d5 (Sur)	78		27 - 123

Lab Sample ID: LB 600-161929/1-C

Matrix: Solid

Analysis Batch: 162038

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161954

LB **LB**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	0.0108	U	0.0500	0.0108	mg/L		05/08/15 15:09	05/11/15 17:12	1
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L		05/08/15 15:09	05/11/15 17:12	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L		05/08/15 15:09	05/11/15 17:12	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 600-161929/1-C

Matrix: Solid

Analysis Batch: 162038

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161954

Analyte	LB		LB		Dil Fac	
	Result	Qualifier	RL	MDL	Unit	
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L	1
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L	1
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L	1
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L	1
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L	1
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L	1
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L	1

Surrogate	LB		LB		Dil Fac	
	%Recovery	Qualifier	Limits	Prepared	Analyzed	
Nitrobenzene-d5	111		35 - 130	05/08/15 15:09	05/11/15 17:12	1
2-Fluorophenol	76		10 - 130	05/08/15 15:09	05/11/15 17:12	1
2-Fluorobiphenyl	85		41 - 130	05/08/15 15:09	05/11/15 17:12	1
2,4,6-Tribromophenol	85		12 - 138	05/08/15 15:09	05/11/15 17:12	1
Terphenyl-d14	97		43 - 130	05/08/15 15:09	05/11/15 17:12	1
Phenol-d5	64		10 - 130	05/08/15 15:09	05/11/15 17:12	1

Lab Sample ID: LB 600-161930/1-C

Matrix: Solid

Analysis Batch: 162035

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161954

Analyte	LB		LB		Dil Fac	
	Result	Qualifier	RL	MDL	Unit	
Pyridine	0.0108	U	0.0500	0.0108	mg/L	1
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L	1
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L	1
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L	1
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L	1
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L	1
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L	1
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L	1
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L	1

Surrogate	LB		LB		Dil Fac	
	%Recovery	Qualifier	Limits	Prepared	Analyzed	
Nitrobenzene-d5	80		35 - 130	05/08/15 15:09	05/11/15 17:37	1
2-Fluorophenol	71		10 - 130	05/08/15 15:09	05/11/15 17:37	1
2-Fluorobiphenyl	74		41 - 130	05/08/15 15:09	05/11/15 17:37	1
2,4,6-Tribromophenol	65		12 - 138	05/08/15 15:09	05/11/15 17:37	1
Terphenyl-d14	91		43 - 130	05/08/15 15:09	05/11/15 17:37	1
Phenol-d5	53		10 - 130	05/08/15 15:09	05/11/15 17:37	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 600-111073-2 MS

Matrix: Solid

Analysis Batch: 162038

Client Sample ID: OT 25319-05.06.2015

Prep Type: TCLP

Prep Batch: 161954

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Pyridine	0.0108	U	0.250	0.09652		mg/L		39	10 - 130
1,4-Dichlorobenzene	0.00890	U	0.250	0.1849		mg/L		74	57 - 130
2,4-Dinitrotoluene	0.0132	U	0.250	0.2203		mg/L		88	60 - 130
Hexachlorobenzene	0.0130	U	0.250	0.2271		mg/L		91	61 - 130
Hexachloroethane	0.0110	U	0.250	0.1925		mg/L		77	52 - 130
Hexachlorobutadiene	0.0106	U	0.250	0.1968		mg/L		79	52 - 130
Nitrobenzene	0.0124	U	0.250	0.2047		mg/L		82	55 - 130
2-Methylphenol	0.00905	U	0.250	0.2004		mg/L		80	39 - 130
3 & 4 Methylphenol	0.00940	U	0.250	0.2039		mg/L		82	29 - 130
Pentachlorophenol	0.0231	U	0.500	0.4042		mg/L		81	29 - 141
2,4,5-Trichlorophenol	0.0136	U	0.250	0.2190		mg/L		88	51 - 130
2,4,6-Trichlorophenol	0.0129	U	0.250	0.2305		mg/L		92	49 - 130

MS **MS**

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	83		35 - 130
2-Fluorophenol	67		10 - 130
2-Fluorobiphenyl	83		41 - 130
2,4,6-Tribromophenol	90		12 - 138
Terphenyl-d14	114		43 - 130
Phenol-d5	59		10 - 130

Lab Sample ID: 600-111073-3 MS

Matrix: Solid

Analysis Batch: 162143

Client Sample ID: OT 25134-05.06.2015

Prep Type: TCLP

Prep Batch: 161954

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Pyridine	0.0108	U	0.250	0.1386		mg/L		55	10 - 130
1,4-Dichlorobenzene	0.00890	U	0.250	0.2022		mg/L		81	57 - 130
2,4-Dinitrotoluene	0.0132	U	0.250	0.2181		mg/L		87	60 - 130
Hexachlorobenzene	0.0130	U	0.250	0.2259		mg/L		90	61 - 130
Hexachloroethane	0.0110	U	0.250	0.2111		mg/L		84	52 - 130
Hexachlorobutadiene	0.0106	U	0.250	0.2124		mg/L		85	52 - 130
Nitrobenzene	0.0124	U	0.250	0.2204		mg/L		88	55 - 130
2-Methylphenol	0.00905	U	0.250	0.2023		mg/L		81	39 - 130
3 & 4 Methylphenol	0.00940	U	0.250	0.2021		mg/L		81	29 - 130
Pentachlorophenol	0.0231	U	0.500	0.4704		mg/L		94	29 - 141
2,4,5-Trichlorophenol	0.0136	U	0.250	0.2119		mg/L		85	51 - 130
2,4,6-Trichlorophenol	0.0129	U	0.250	0.2194		mg/L		88	49 - 130

MS **MS**

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	90		35 - 130
2-Fluorophenol	73		10 - 130
2-Fluorobiphenyl	85		41 - 130
2,4,6-Tribromophenol	90		12 - 138
Terphenyl-d14	81		43 - 130
Phenol-d5	59		10 - 130

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 600-162014/1-C

Matrix: Water

Analysis Batch: 162143

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 162046

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyridine	0.0108	U	0.0500	0.0108	mg/L				
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L				
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L				
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L				
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L				
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L				
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L				
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L				
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L				
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L				
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L				
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L				

Surrogate	LB	LB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	66		35 - 130			05/11/15 14:02	05/12/15 10:32	1
2-Fluorophenol	58		10 - 130			05/11/15 14:02	05/12/15 10:32	1
2-Fluorobiphenyl	65		41 - 130			05/11/15 14:02	05/12/15 10:32	1
2,4,6-Tribromophenol	68		12 - 138			05/11/15 14:02	05/12/15 10:32	1
Terphenyl-d14	77		43 - 130			05/11/15 14:02	05/12/15 10:32	1
Phenol-d5 (Surr)	47		10 - 130			05/11/15 14:02	05/12/15 10:32	1

Lab Sample ID: 600-111073-1 MS

Matrix: Water

Analysis Batch: 162230

Client Sample ID: FT 5180-05.06.2015

Prep Type: TCLP

Prep Batch: 162046

Analyte	Sample	Sample	Spike	MS	MS	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier	Unit		
Pyridine	0.0108	U	0.250	0.08800		mg/L	35	10 - 130
1,4-Dichlorobenzene	0.00890	U	0.250	0.1624		mg/L	65	57 - 130
2,4-Dinitrotoluene	0.0132	U	0.250	0.1953		mg/L	78	60 - 130
Hexachlorobenzene	0.0130	U	0.250	0.2073		mg/L	83	61 - 130
Hexachloroethane	0.0110	U	0.250	0.1670		mg/L	67	52 - 130
Hexachlorobutadiene	0.0106	U	0.250	0.1704		mg/L	68	52 - 130
Nitrobenzene	0.0124	U	0.250	0.1876		mg/L	75	55 - 130
2-Methylphenol	0.0686		0.250	0.3163		mg/L	99	39 - 130
3 & 4 Methylphenol	0.0418	J	0.250	0.2593		mg/L	87	29 - 130
Pentachlorophenol	0.0231	U	0.500	0.3967		mg/L	79	29 - 141
2,4,5-Trichlorophenol	0.0136	U	0.250	0.1975		mg/L	79	51 - 130
2,4,6-Trichlorophenol	0.0129	U	0.250	0.2080		mg/L	83	49 - 130

Surrogate	MS	MS	%Recovery	Qualifier	Limits
Nitrobenzene-d5	77		35 - 130		
2-Fluorophenol	58		10 - 130		
2-Fluorobiphenyl	76		41 - 130		
2,4,6-Tribromophenol	78		12 - 138		
Terphenyl-d14	77		43 - 130		
Phenol-d5 (Surr)	49		10 - 130		

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-161959/1-A

Matrix: Solid

Analysis Batch: 161966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161959

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed		
C6-C12	3.80	U	10.0	3.80	mg/Kg	05/08/15 10:01	05/08/15 11:27		1	
>C12-C28	4.06	U	10.0	4.06	mg/Kg	05/08/15 10:01	05/08/15 11:27		1	
>C28-C35	4.06	U	10.0	4.06	mg/Kg	05/08/15 10:01	05/08/15 11:27		1	
C6-C35	3.80	U	10.0	3.80	mg/Kg	05/08/15 10:01	05/08/15 11:27		1	

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o-Terphenyl</i>	122		70 - 130	05/08/15 10:01	05/08/15 11:27	1

Lab Sample ID: LCS 600-161959/2-A

Matrix: Solid

Analysis Batch: 161966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161959

Analyte	Spike		Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added	LCS							
C6-C12	250	253.9	mg/Kg	102	75 - 125				
>C12-C28	250	251.5	mg/Kg	101	75 - 125				
C6-C35	500	505.4	mg/Kg	101	75 - 125				

Surrogate	LCS		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o-Terphenyl</i>	119		70 - 130	05/08/15 10:01	05/08/15 11:27	1

Lab Sample ID: LCSD 600-161959/3-A

Matrix: Solid

Analysis Batch: 161966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 161959

Analyte	Spike		Result	LCSD Qualifier	Unit	D	%Rec	Limits	%Rec.	RPD
	Added	LCSD								
C6-C12	250	255.6	mg/Kg	102	75 - 125				1	20
>C12-C28	250	253.0	mg/Kg	101	75 - 125				1	20
C6-C35	500	508.6	mg/Kg	102	75 - 125				1	20

Surrogate	LCSD		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o-Terphenyl</i>	118		70 - 130	05/08/15 10:01	05/08/15 11:27	1

Lab Sample ID: MB 600-161978/1-A

Matrix: Water

Analysis Batch: 161984

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161978

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed		
C6-C12	0.830	U	2.00	0.830	mg/L	05/08/15 12:04	05/08/15 14:42		1	
>C12-C28	0.960	U	2.00	0.960	mg/L	05/08/15 12:04	05/08/15 14:42		1	
>C28-C35	0.960	U	2.00	0.960	mg/L	05/08/15 12:04	05/08/15 14:42		1	
C6-C35	0.830	U	2.00	0.830	mg/L	05/08/15 12:04	05/08/15 14:42		1	

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o-Terphenyl</i>	107		70 - 130	05/08/15 12:04	05/08/15 14:42	1

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) (Continued)

Lab Sample ID: LCS 600-161978/2-A

Matrix: Water

Analysis Batch: 161984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
C6-C12	33.3	30.85		mg/L		93	75 - 125
>C12-C28	33.3	30.46		mg/L		91	75 - 125
C6-C35	66.7	61.31		mg/L		92	75 - 125
Surrogate	%Recovery	LCS Qualifier	Limits				Limits
<i>o-Terphenyl</i>	112		70 - 130				

Lab Sample ID: LCSD 600-161978/3-A

Matrix: Water

Analysis Batch: 161984

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 161978

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
C6-C12	33.3	31.82		mg/L		95	75 - 125	3
>C12-C28	33.3	30.70		mg/L		92	75 - 125	1
C6-C35	66.7	62.52		mg/L		94	75 - 125	2
Surrogate	%Recovery	LCSD Qualifier	Limits				Limits	RPD
<i>o-Terphenyl</i>	112		70 - 130					

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-161977/1-A

Matrix: Solid

Analysis Batch: 162205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00328	U	0.0100	0.00328	mg/L		05/08/15 11:55	05/12/15 13:58	1
Barium	0.00220	U	0.0200	0.00220	mg/L		05/08/15 11:55	05/12/15 13:58	1
Cadmium	0.000350	U	0.00500	0.000350	mg/L		05/08/15 11:55	05/12/15 13:58	1
Chromium	0.00155	U	0.0100	0.00155	mg/L		05/08/15 11:55	05/12/15 13:58	1
Lead	0.00290	U	0.0100	0.00290	mg/L		05/08/15 11:55	05/12/15 13:58	1
Selenium	0.00417	U	0.0400	0.00417	mg/L		05/08/15 11:55	05/12/15 13:58	1
Silver	0.00125	U	0.0100	0.00125	mg/L		05/08/15 11:55	05/12/15 13:58	1

Lab Sample ID: LCS 600-161977/2-A

Matrix: Solid

Analysis Batch: 162205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Arsenic	1.00	1.090		mg/L		109	80 - 120
Barium	1.00	1.081		mg/L		108	80 - 120
Cadmium	0.500	0.5401		mg/L		108	80 - 120
Chromium	1.00	1.067		mg/L		107	80 - 120
Lead	1.00	1.095		mg/L		110	80 - 120
Selenium	1.00	1.087		mg/L		109	80 - 120
Silver	0.500	0.5438		mg/L		109	80 - 120

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 600-162094/1-A

Matrix: Water

Analysis Batch: 162205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162094

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.003392	J	0.0100	0.00328	mg/L		05/11/15 13:12	05/12/15 14:39	1
Barium	0.00220	U	0.0200	0.00220	mg/L		05/11/15 13:12	05/12/15 14:39	1
Cadmium	0.000350	U	0.00500	0.000350	mg/L		05/11/15 13:12	05/12/15 14:39	1
Chromium	0.00155	U	0.0100	0.00155	mg/L		05/11/15 13:12	05/12/15 14:39	1
Lead	0.00290	U	0.0100	0.00290	mg/L		05/11/15 13:12	05/12/15 14:39	1
Selenium	0.00417	U	0.0400	0.00417	mg/L		05/11/15 13:12	05/12/15 14:39	1
Silver	0.00125	U	0.0100	0.00125	mg/L		05/11/15 13:12	05/12/15 14:39	1

Lab Sample ID: LCS 600-162094/2-A

Matrix: Water

Analysis Batch: 162205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162094

Analyte	Spike		Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added							
Arsenic	1.00		1.063		mg/L	106	80 - 120	
Barium	1.00		1.061		mg/L	106	80 - 120	
Cadmium	0.500		0.5290		mg/L	106	80 - 120	
Chromium	1.00		1.047		mg/L	105	80 - 120	
Lead	1.00		1.070		mg/L	107	80 - 120	
Selenium	1.00		1.062		mg/L	106	80 - 120	
Silver	0.500		0.5476		mg/L	110	80 - 120	

Lab Sample ID: MB 490-247638/1-A

Matrix: Water

Analysis Batch: 248081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247638

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.00720	U	0.0100	0.00720	mg/L		05/12/15 13:09	05/13/15 12:03	1
Barium	0.00500	U	0.0100	0.00500	mg/L		05/12/15 13:09	05/13/15 12:03	1
Cadmium	0.000500	U	0.00100	0.000500	mg/L		05/12/15 13:09	05/13/15 12:03	1
Chromium	0.00300	U	0.00500	0.00300	mg/L		05/12/15 13:09	05/13/15 12:03	1
Lead	0.00200	U	0.00500	0.00200	mg/L		05/12/15 13:09	05/13/15 12:03	1
Selenium	0.00500	U	0.0100	0.00500	mg/L		05/12/15 13:09	05/13/15 12:03	1
Silver	0.00250	U	0.00500	0.00250	mg/L		05/12/15 13:09	05/13/15 12:03	1
Sulfur	0.1041	J	0.250	0.100	mg/L		05/12/15 13:09	05/13/15 12:03	1

Lab Sample ID: LCS 490-247638/2-A

Matrix: Water

Analysis Batch: 248081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247638

Analyte	Spike		Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added							
Arsenic	0.0500		0.04590		mg/L	92	80 - 120	
Barium	2.00		2.064		mg/L	103	80 - 120	
Cadmium	0.0500		0.05060		mg/L	101	80 - 120	
Chromium	0.200		0.2074		mg/L	104	80 - 120	
Lead	0.0500		0.05160		mg/L	103	80 - 120	
Selenium	0.0500		0.05100		mg/L	102	80 - 120	
Silver	0.0500		0.05310		mg/L	106	80 - 120	
Sulfur	1.00		1.020		mg/L	102	80 - 120	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 490-247638/3-A

Matrix: Water

Analysis Batch: 248081

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 247638

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
Arsenic	0.0500	0.04700		mg/L		94	80 - 120	2	20	
Barium	2.00	2.096		mg/L		105	80 - 120	2	20	
Cadmium	0.0500	0.05160		mg/L		103	80 - 120	2	20	
Chromium	0.200	0.2130		mg/L		107	80 - 120	3	20	
Lead	0.0500	0.05290		mg/L		106	80 - 120	2	20	
Selenium	0.0500	0.05210		mg/L		104	80 - 120	2	20	
Silver	0.0500	0.05390		mg/L		108	80 - 120	1	20	
Sulfur	1.00	1.018		mg/L		102	80 - 120	0	20	

Lab Sample ID: MB 490-247644/1-A

Matrix: Solid

Analysis Batch: 247796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 247644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.905	U		0.905	mg/Kg		05/12/15 13:26	05/12/15 21:26	1
Barium	1.61	U	2.01	1.61	mg/Kg		05/12/15 13:26	05/12/15 21:26	1
Cadmium	0.101	U	1.01	0.101	mg/Kg		05/12/15 13:26	05/12/15 21:26	1
Chromium	0.604	U	1.01	0.604	mg/Kg		05/12/15 13:26	05/12/15 21:26	1
Lead	0.503	U	1.01	0.503	mg/Kg		05/12/15 13:26	05/12/15 21:26	1
Selenium	1.01	U	2.01	1.01	mg/Kg		05/12/15 13:26	05/12/15 21:26	1
Silver	0.503	U	1.01	0.503	mg/Kg		05/12/15 13:26	05/12/15 21:26	1
Sodium	101	U	201	101	mg/Kg		05/12/15 13:26	05/12/15 21:26	1
Sulfur	20.1	U	50.3	20.1	mg/Kg		05/12/15 13:26	05/12/15 21:26	1

Lab Sample ID: LCS 490-247644/2-A

Matrix: Solid

Analysis Batch: 247796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 247644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		
Arsenic	20.0	18.04		mg/Kg		90	80 - 120		
Barium	798	779.2		mg/Kg		98	80 - 120		
Cadmium	20.0	19.54		mg/Kg		98	80 - 120		
Chromium	79.8	79.76		mg/Kg		100	80 - 120		
Lead	20.0	20.46		mg/Kg		102	80 - 120		
Selenium	20.0	19.14		mg/Kg		96	80 - 120		
Silver	20.0	19.86		mg/Kg		99	80 - 120		
Sodium	2000	1941		mg/Kg		97	80 - 120		
Sulfur	399	366.5		mg/Kg		92	80 - 120		

Lab Sample ID: LCSD 490-247644/3-A

Matrix: Solid

Analysis Batch: 247796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 247644

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
Arsenic	19.4	18.95		mg/Kg		98	80 - 120	5	20	
Barium	777	792.8		mg/Kg		102	80 - 120	2	20	
Cadmium	19.4	19.92		mg/Kg		103	80 - 120	2	20	
Chromium	77.7	79.63		mg/Kg		103	80 - 120	0	20	
Lead	19.4	20.64		mg/Kg		106	80 - 120	1	20	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 490-247644/3-A

Matrix: Solid

Analysis Batch: 247796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 247644

%Rec.

RPD

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Selenium	19.4	19.77		mg/Kg	102	80 - 120	3	20	
Silver	19.4	18.80		mg/Kg	97	80 - 120	6	20	
Sodium	1940	1981		mg/Kg	102	80 - 120	2	20	
Sulfur	388	375.3		mg/Kg	97	80 - 120	2	20	

Lab Sample ID: LB 600-161929/1-B

Matrix: Solid

Analysis Batch: 162205

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161977

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0328	U	0.100	0.0328	mg/L	05/08/15 11:55	05/12/15 14:02		1
Barium	0.1294	J	0.200	0.0220	mg/L	05/08/15 11:55	05/12/15 14:02		1
Cadmium	0.00350	U	0.0500	0.00350	mg/L	05/08/15 11:55	05/12/15 14:02		1
Chromium	0.0155	U	0.100	0.0155	mg/L	05/08/15 11:55	05/12/15 14:02		1
Lead	0.0290	U	0.100	0.0290	mg/L	05/08/15 11:55	05/12/15 14:02		1
Selenium	0.0417	U	0.400	0.0417	mg/L	05/08/15 11:55	05/12/15 14:02		1
Silver	0.0125	U	0.100	0.0125	mg/L	05/08/15 11:55	05/12/15 14:02		1

Lab Sample ID: LB 600-161930/1-B

Matrix: Solid

Analysis Batch: 162205

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 161977

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0328	U	0.100	0.0328	mg/L	05/08/15 11:55	05/12/15 14:09		1
Barium	0.1368	J	0.200	0.0220	mg/L	05/08/15 11:55	05/12/15 14:09		1
Cadmium	0.00350	U	0.0500	0.00350	mg/L	05/08/15 11:55	05/12/15 14:09		1
Chromium	0.0155	U	0.100	0.0155	mg/L	05/08/15 11:55	05/12/15 14:09		1
Lead	0.0290	U	0.100	0.0290	mg/L	05/08/15 11:55	05/12/15 14:09		1
Selenium	0.0417	U	0.400	0.0417	mg/L	05/08/15 11:55	05/12/15 14:09		1
Silver	0.0125	U	0.100	0.0125	mg/L	05/08/15 11:55	05/12/15 14:09		1

Lab Sample ID: 600-111073-2 MS

Matrix: Solid

Analysis Batch: 162205

Client Sample ID: OT 25319-05.06.2015

Prep Type: TCLP

Prep Batch: 161977

%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0328	U	10.0	11.03		mg/L	110	75 - 125	
Barium	0.256	B	10.0	10.95		mg/L	107	75 - 125	
Cadmium	0.00350	U	5.00	5.303		mg/L	106	75 - 125	
Chromium	0.0193	J	10.0	10.61		mg/L	106	75 - 125	
Lead	0.0290	U	10.0	10.75		mg/L	108	75 - 125	
Selenium	0.0417	U	10.0	11.00		mg/L	110	75 - 125	
Silver	0.0125	U	5.00	5.485		mg/L	110	75 - 125	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-111073-3 MS

Matrix: Solid

Analysis Batch: 162205

Client Sample ID: OT 25134-05.06.2015

Prep Type: TCLP

Prep Batch: 161977

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	0.0328	U	10.0	11.13		mg/L	111	75 - 125	
Barium	0.186	J B	10.0	10.87		mg/L	107	75 - 125	
Cadmium	0.00350	U	5.00	5.270		mg/L	105	75 - 125	
Chromium	0.0155	U	10.0	10.55		mg/L	106	75 - 125	
Lead	0.0290	U	10.0	10.65		mg/L	107	75 - 125	
Selenium	0.0417	U	10.0	11.09		mg/L	111	75 - 125	
Silver	0.0125	U	5.00	5.525		mg/L	111	75 - 125	

Lab Sample ID: LB 600-162014/1-B

Matrix: Water

Analysis Batch: 162205

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 162094

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.0328	U	0.100	0.0328	mg/L	05/11/15 13:12	05/12/15 14:48		1
Barium	0.1179	J	0.200	0.0220	mg/L	05/11/15 13:12	05/12/15 14:48		1
Cadmium	0.00350	U	0.0500	0.00350	mg/L	05/11/15 13:12	05/12/15 14:48		1
Chromium	0.0155	U	0.100	0.0155	mg/L	05/11/15 13:12	05/12/15 14:48		1
Lead	0.0290	U	0.100	0.0290	mg/L	05/11/15 13:12	05/12/15 14:48		1
Selenium	0.0417	U	0.400	0.0417	mg/L	05/11/15 13:12	05/12/15 14:48		1
Silver	0.0125	U	0.100	0.0125	mg/L	05/11/15 13:12	05/12/15 14:48		1

Lab Sample ID: 600-111073-1 MS

Matrix: Water

Analysis Batch: 162205

Client Sample ID: FT 5180-05.06.2015

Prep Type: TCLP

Prep Batch: 162094

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
Arsenic	0.0328	U	10.0	11.11		mg/L	111	75 - 125	
Barium	0.288	B	10.0	11.40		mg/L	111	75 - 125	
Cadmium	0.00350	U	5.00	5.475		mg/L	110	75 - 125	
Chromium	0.0155	U	10.0	10.95		mg/L	110	75 - 125	
Lead	0.0290	U	10.0	11.17		mg/L	112	75 - 125	
Selenium	0.0417	U	10.0	11.14		mg/L	111	75 - 125	
Silver	0.0125	U	5.00	5.641		mg/L	113	75 - 125	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 600-162044/7-A

Matrix: Solid

Analysis Batch: 162092

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162044

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0000820	U	0.000200	0.0000820	mg/L	05/11/15 08:13	05/11/15 11:46		1

Lab Sample ID: LCS 600-162044/8-A ^50

Matrix: Solid

Analysis Batch: 162092

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162044

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added						
Mercury	0.153	0.1409		mg/L	92	70 - 130	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC
 Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Lab Sample ID: MB 600-162147/7-A
Matrix: Water
Analysis Batch: 162190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 162147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L	D	05/12/15 07:44	05/12/15 10:37	1

Lab Sample ID: LCS 600-162147/8-A ^50
Matrix: Water
Analysis Batch: 162190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 162147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.153	0.1575		mg/L	D	103	70 - 130

Lab Sample ID: LB 600-161929/1-D
Matrix: Solid
Analysis Batch: 162092

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 162044

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L	D	05/11/15 08:13	05/11/15 11:53	1

Lab Sample ID: LB 600-161930/1-D
Matrix: Solid
Analysis Batch: 162092

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 162044

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L	D	05/11/15 08:13	05/11/15 12:01	1

Lab Sample ID: MB 600-162000/1-C
Matrix: Solid
Analysis Batch: 162092

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 162044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L	D	05/11/15 08:13	05/11/15 11:50	1

Lab Sample ID: 600-111073-2 MS
Matrix: Solid
Analysis Batch: 162092

Client Sample ID: OT 25319-05.06.2015
Prep Type: TCLP
Prep Batch: 162044

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.000820	U	0.0300	0.02968		mg/L	D	99	75 - 125

Lab Sample ID: 600-111073-3 MS
Matrix: Solid
Analysis Batch: 162092

Client Sample ID: OT 25134-05.06.2015
Prep Type: TCLP
Prep Batch: 162044

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.000820	U	0.0300	0.02781		mg/L	D	93	75 - 125

Lab Sample ID: 600-111073-2 DU
Matrix: Solid
Analysis Batch: 162092

Client Sample ID: OT 25319-05.06.2015
Prep Type: TCLP
Prep Batch: 162044

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.000820	U	0.000820	U	mg/L	D	NC	20

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 600-162014/1-D

Matrix: Water

Analysis Batch: 162190

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 162147

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L		05/12/15 07:44	05/12/15 10:42	1

Lab Sample ID: 600-111073-1 MS

Matrix: Water

Analysis Batch: 162190

Client Sample ID: FT 5180-05.06.2015

Prep Type: TCLP

Prep Batch: 162147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Mercury	0.000820	U	0.0300	0.02607		mg/L		87	75 - 125

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 600-162061/7-A

Matrix: Solid

Analysis Batch: 162063

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00336	U	0.0159	0.00336	mg/Kg		05/11/15 10:12	05/11/15 13:12	1

Lab Sample ID: LCSSRM 600-162061/8-A ^50

Matrix: Solid

Analysis Batch: 162063

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162061

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec.	Limits
Mercury	5.76	4.768		mg/Kg		82.8	71.2 - 128.

6

Method: 7.4.4 - Reactive Sulfide

Lab Sample ID: MB 600-161910/1-A

Matrix: Solid

Analysis Batch: 161936

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	14.0	U	50.0	14.0	mg/Kg		05/07/15 10:40	05/07/15 21:04	1

Lab Sample ID: LCS 600-161910/3-A

Matrix: Solid

Analysis Batch: 161936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161910

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Sulfide, Reactive	1010	100.0		mg/Kg		10	0 - 200

Lab Sample ID: MB 600-162292/1-A

Matrix: Water

Analysis Batch: 162373

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	1.40	U	50.0	1.40	mg/L		05/13/15 09:40	05/14/15 11:25	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC
 Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: 7.4.4 - Reactive Sulfide (Continued)

Lab Sample ID: LCS 600-162292/3-A

Matrix: Water

Analysis Batch: 162373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162292

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Sulfide, Reactive	1010	300.0		mg/L	30	0 - 200	

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 600-161910/1-A

Matrix: Solid

Analysis Batch: 161933

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 161910

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	0.0855	U	0.250	0.0855	mg/Kg		05/07/15 10:40	05/07/15 20:58	1

Lab Sample ID: LCS 600-161910/2-A

Matrix: Solid

Analysis Batch: 161933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 161910

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Cyanide, Reactive	1000	115.7		mg/Kg	12	0 - 200	

Lab Sample ID: MB 600-162292/1-A

Matrix: Water

Analysis Batch: 162366

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 162292

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	0.0397	U	0.250	0.0397	mg/L		05/13/15 09:40	05/14/15 10:31	1

Lab Sample ID: LCS 600-162292/2-A ^20

Matrix: Water

Analysis Batch: 162366

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 162292

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Cyanide, Reactive	1000	227.3		mg/L	23	0 - 200	

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 490-247715/6

Matrix: Water

Analysis Batch: 247715

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	0.0150	U	0.0300	0.0150	mg/L		05/11/15 10:00		1

Lab Sample ID: LCS 490-247715/4

Matrix: Water

Analysis Batch: 247715

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Halogens, Total Organic	0.250	0.2291		mg/L	92	90 - 110	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Method: 9020B - Organic Halides, Total (TOX) (Continued)

Lab Sample ID: LCSD 490-247715/5

Matrix: Water

Analysis Batch: 247715

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit
Halogens, Total Organic	0.250	0.2347		mg/L		94	90 - 110	2 / 20

Method: 9023 - Organic Halides, Extractable (EOX)

Lab Sample ID: MB 240-180312/3-A

Matrix: Solid

Analysis Batch: 180440

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 180312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	33.8	U	199	33.8	mg/Kg		05/12/15 06:08	05/12/15 09:39	1

Lab Sample ID: LCS 240-180312/4-A

Matrix: Solid

Analysis Batch: 180440

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 180312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limit
Halogens, Extractable Organic	995	945.0		mg/Kg		95	75 - 125

Method: 9045C - Corrosivity

Lab Sample ID: LCS 600-162308/1

Matrix: Solid

Analysis Batch: 162308

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limit
pH	7.00	7.000		SU		100	99 - 101

Method: D240-87 - Heat of Combustion

Lab Sample ID: MB 600-162306/1

Matrix: Water

Analysis Batch: 162306

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	500	U	500	500	BTU/lb		05/13/15 13:15		1

Lab Sample ID: LCS 600-162306/2

Matrix: Water

Analysis Batch: 162306

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limit
BTU	11400	11220		BTU/lb		99	90 - 110

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Method: D240-87 - Heat of Combustion (Continued)

Lab Sample ID: 600-111073-1 DU

Matrix: Water

Analysis Batch: 162306

Client Sample ID: FT 5180-05.06.2015

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
BTU	500	U	500	U	BTU/lb	D	NC	20

Method: D92 - Flashpoint

Lab Sample ID: 600-111073-2 DU

Matrix: Solid

Analysis Batch: 162110

Client Sample ID: OT 25319-05.06.2015

Prep Type: Total/NA

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Flashpoint	>212		>212		Degrees F	D	NC	20

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 600-162027/1

Matrix: Water

Analysis Batch: 162027

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	2.00	U	2.00	2.00	mg/L	D	Prepared	05/09/15 08:33	1

Lab Sample ID: LCS 600-162027/2

Matrix: Water

Analysis Batch: 162027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
Total Suspended Solids		1200	1156	mg/L	D	96	90 - 110	

Method: SW846 Ch. 7 - Ignitability

Lab Sample ID: MB 600-162110/1

Matrix: Water

Analysis Batch: 162110

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Flashpoint	>186		1.00	1.00	Degrees F	D	Prepared	05/11/15 11:03	1

Lab Sample ID: LCS 600-162110/2

Matrix: Water

Analysis Batch: 162110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
Flashpoint		81.0	80.00	Degrees F	D	99	96.9 - 103.	1 - 09

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-111073-1

Method: SW846 Ch. 7 - Ignitability (Continued)

Lab Sample ID: 600-111073-1 DU

Matrix: Water

Analysis Batch: 162110

Client Sample ID: FT 5180-05.06.2015

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Flashpoint	>186		>186		Degrees F	-	NC	20

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

GC/MS VOA

Analysis Batch: 141386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	8260B	141468
LCS 180-141386/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 180-141386/7	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 180-141386/5	Method Blank	Total/NA	Water	8260B	

Leach Batch: 141421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	1311	
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	1311	
LB 180-141421/8-A	Method Blank	TCLP	Solid	1311	

Leach Batch: 141468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	1311	

Analysis Batch: 141542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	8260B	141421
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	8260B	141421
LB 180-141421/8-A	Method Blank	TCLP	Solid	8260B	141421
LCS 180-141542/13	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 161757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	8260B	161916
LCS 600-161916/1-A	Lab Control Sample	Total/NA	Solid	8260B	161916
LCSD 600-161916/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	161916
MB 600-161916/3-A	Method Blank	Total/NA	Solid	8260B	161916

Prep Batch: 161916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	5030B	
LCS 600-161916/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-161916/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	
MB 600-161916/3-A	Method Blank	Total/NA	Solid	5030B	

Analysis Batch: 162021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	8260B	162025
LCS 600-162021/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-162021/1004	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 600-162021/6	Method Blank	Total/NA	Solid	8260B	

Prep Batch: 162025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	5030B	

Analysis Batch: 257275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	8260B	
LCS 400-257275/1002	Lab Control Sample	Total/NA	Water	8260B	

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC
 Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

GC/MS VOA (Continued)

Analysis Batch: 257275 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-257275/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Leach Batch: 161929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	1311	
600-111073-2 MS	OT 25319-05.06.2015	TCLP	Solid	1311	
LB 600-161929/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 161930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	1311	
600-111073-3 MS	OT 25134-05.06.2015	TCLP	Solid	1311	
LB 600-161930/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 161954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	3510C	
600-111073-2 MS	OT 25319-05.06.2015	TCLP	Solid	3510C	161929
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	3510C	161930
600-111073-3 MS	OT 25134-05.06.2015	TCLP	Solid	3510C	161930
LB 600-161929/1-C	Method Blank	TCLP	Solid	3510C	161929
LB 600-161930/1-C	Method Blank	TCLP	Solid	3510C	161930
LCS 600-161954/2-A	Lab Control Sample	Total/NA	Solid	3510C	
MB 600-161954/1-A	Method Blank	Total/NA	Solid	3510C	

Leach Batch: 162014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	1311	
600-111073-1 MS	FT 5180-05.06.2015	TCLP	Water	1311	
LB 600-162014/1-C	Method Blank	TCLP	Water	1311	

Analysis Batch: 162035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	8270C	
LB 600-161930/1-C	Method Blank	TCLP	Solid	8270C	161954

Analysis Batch: 162038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	8270C	161954
600-111073-2 MS	OT 25319-05.06.2015	TCLP	Solid	8270C	161954
LB 600-161929/1-C	Method Blank	TCLP	Solid	8270C	161954
LCS 600-161954/2-A	Lab Control Sample	Total/NA	Solid	8270C	161954
MB 600-161954/1-A	Method Blank	Total/NA	Solid	8270C	161954

Prep Batch: 162046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	3510C	
600-111073-1 MS	FT 5180-05.06.2015	TCLP	Water	3510C	162014

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

GC/MS Semi VOA (Continued)

Prep Batch: 162046 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 600-162014/1-C	Method Blank	TCLP	Water	3510C	162014
LCS 600-162046/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 600-162046/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 162047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	3510C	
LCS 600-162047/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 600-162047/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 600-162047/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 162142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	8270C	162047
LCS 600-162047/2-A	Lab Control Sample	Total/NA	Water	8270C	162047
LCSD 600-162047/5-A	Lab Control Sample Dup	Total/NA	Water	8270C	162047
MB 600-162047/1-A	Method Blank	Total/NA	Water	8270C	162047

Analysis Batch: 162143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-3 MS	OT 25134-05.06.2015	TCLP	Solid	8270C	161954
LB 600-162014/1-C	Method Blank	TCLP	Water	8270C	162046
LCS 600-162046/2-A	Lab Control Sample	Total/NA	Water	8270C	162046
MB 600-162046/1-A	Method Blank	Total/NA	Water	8270C	162046

Prep Batch: 162200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	3546	
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	3546	
LCS 600-162200/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 600-162200/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 162230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	8270C	162046
600-111073-1 MS	FT 5180-05.06.2015	TCLP	Water	8270C	162046
LCS 600-162200/2-A	Lab Control Sample	Total/NA	Solid	8270C	162200
MB 600-162200/1-A	Method Blank	Total/NA	Solid	8270C	162200

Analysis Batch: 162231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	8270C	162200
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	8270C	162200

GC Semi VOA

Prep Batch: 161959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2 - DL	OT 25319-05.06.2015	Total/NA	Solid	TX_1005_S_Pre p	

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QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

GC Semi VOA (Continued)

Prep Batch: 161959 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-3 - DL	OT 25134-05.06.2015	Total/NA	Solid	TX_1005_S_Pre p	5
LCS 600-161959/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre p	6
LCSD 600-161959/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre p	7
MB 600-161959/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre p	8

Analysis Batch: 161966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2 - DL	OT 25319-05.06.2015	Total/NA	Solid	TX 1005	161959
600-111073-3 - DL	OT 25134-05.06.2015	Total/NA	Solid	TX 1005	161959
LCS 600-161959/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	161959
LCSD 600-161959/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	161959
MB 600-161959/1-A	Method Blank	Total/NA	Solid	TX 1005	161959

Prep Batch: 161978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	TX_1005_W_Pr ep	13
LCS 600-161978/2-A	Lab Control Sample	Total/NA	Water	TX_1005_W_Pr ep	14
LCSD 600-161978/3-A	Lab Control Sample Dup	Total/NA	Water	TX_1005_W_Pr ep	11
MB 600-161978/1-A	Method Blank	Total/NA	Water	TX_1005_W_Pr ep	12

Analysis Batch: 161984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-161978/2-A	Lab Control Sample	Total/NA	Water	TX 1005	161978
LCSD 600-161978/3-A	Lab Control Sample Dup	Total/NA	Water	TX 1005	161978
MB 600-161978/1-A	Method Blank	Total/NA	Water	TX 1005	161978

Analysis Batch: 161985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	TX 1005	161978

Metals

Leach Batch: 161929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	1311	
600-111073-2 DU	OT 25319-05.06.2015	TCLP	Solid	1311	
600-111073-2 MS	OT 25319-05.06.2015	TCLP	Solid	1311	
LB 600-161929/1-B	Method Blank	TCLP	Solid	1311	
LB 600-161929/1-D	Method Blank	TCLP	Solid	1311	

Leach Batch: 161930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	1311	
600-111073-3 MS	OT 25134-05.06.2015	TCLP	Solid	1311	

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Metals (Continued)

Leach Batch: 161930 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 600-161930/1-B	Method Blank	TCLP	Solid	1311	
LB 600-161930/1-D	Method Blank	TCLP	Solid	1311	

Prep Batch: 161977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	3010A	161929
600-111073-2 MS	OT 25319-05.06.2015	TCLP	Solid	3010A	161929
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	3010A	161930
600-111073-3 MS	OT 25134-05.06.2015	TCLP	Solid	3010A	161930
LB 600-161929/1-B	Method Blank	TCLP	Solid	3010A	161929
LB 600-161930/1-B	Method Blank	TCLP	Solid	3010A	161930
LCS 600-161977/2-A	Lab Control Sample	Total/NA	Solid	3010A	
MB 600-161977/1-A	Method Blank	Total/NA	Solid	3010A	

Filtration Batch: 162000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-162000/1-C	Method Blank	TCLP	Solid	FILTRATION	

Leach Batch: 162014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	1311	
600-111073-1 MS	FT 5180-05.06.2015	TCLP	Water	1311	
LB 600-162014/1-B	Method Blank	TCLP	Water	1311	
LB 600-162014/1-D	Method Blank	TCLP	Water	1311	

Prep Batch: 162044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	7470A	161929
600-111073-2 DU	OT 25319-05.06.2015	TCLP	Solid	7470A	161929
600-111073-2 MS	OT 25319-05.06.2015	TCLP	Solid	7470A	161929
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	7470A	161930
600-111073-3 MS	OT 25134-05.06.2015	TCLP	Solid	7470A	161930
LB 600-161929/1-D	Method Blank	TCLP	Solid	7470A	161929
LB 600-161930/1-D	Method Blank	TCLP	Solid	7470A	161930
LCS 600-162044/8-A ^50	Lab Control Sample	Total/NA	Solid	7470A	
MB 600-162000/1-C	Method Blank	TCLP	Solid	7470A	162000
MB 600-162044/7-A	Method Blank	Total/NA	Solid	7470A	

Prep Batch: 162061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	7471A	
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	7471A	
LCSSRM 600-162061/8-A ^5	Lab Control Sample	Total/NA	Solid	7471A	
MB 600-162061/7-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 162063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	7471A	162061
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	7471A	162061
LCSSRM 600-162061/8-A ^5	Lab Control Sample	Total/NA	Solid	7471A	162061
MB 600-162061/7-A	Method Blank	Total/NA	Solid	7471A	162061

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-111073-1

Analysis Batch: 162092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	7470A	162044
600-111073-2 DU	OT 25319-05.06.2015	TCLP	Solid	7470A	162044
600-111073-2 MS	OT 25319-05.06.2015	TCLP	Solid	7470A	162044
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	7470A	162044
600-111073-3 MS	OT 25134-05.06.2015	TCLP	Solid	7470A	162044
LB 600-161929/1-D	Method Blank	TCLP	Solid	7470A	162044
LB 600-161930/1-D	Method Blank	TCLP	Solid	7470A	162044
LCS 600-162044/8-A ^50	Lab Control Sample	Total/NA	Solid	7470A	162044
MB 600-162000/1-C	Method Blank	TCLP	Solid	7470A	162044
MB 600-162044/7-A	Method Blank	Total/NA	Solid	7470A	162044

Prep Batch: 162094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	3010A	162014
600-111073-1 MS	FT 5180-05.06.2015	TCLP	Water	3010A	162014
LB 600-162014/1-B	Method Blank	TCLP	Water	3010A	162014
LCS 600-162094/2-A	Lab Control Sample	Total/NA	Water	3010A	162014
MB 600-162094/1-A	Method Blank	Total/NA	Water	3010A	162014

Prep Batch: 162147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	7470A	162014
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	7470A	162014
600-111073-1 MS	FT 5180-05.06.2015	TCLP	Water	7470A	162014
LB 600-162014/1-D	Method Blank	TCLP	Water	7470A	162014
LCS 600-162147/8-A ^50	Lab Control Sample	Total/NA	Water	7470A	162014
MB 600-162147/7-A	Method Blank	Total/NA	Water	7470A	162014

Analysis Batch: 162190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	7470A	162147
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	7470A	162147
600-111073-1 MS	FT 5180-05.06.2015	TCLP	Water	7470A	162147
LB 600-162014/1-D	Method Blank	TCLP	Water	7470A	162147
LCS 600-162147/8-A ^50	Lab Control Sample	Total/NA	Water	7470A	162147
MB 600-162147/7-A	Method Blank	Total/NA	Water	7470A	162147

Analysis Batch: 162205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	TCLP	Water	6010B	162094
600-111073-1 MS	FT 5180-05.06.2015	TCLP	Water	6010B	162094
600-111073-2	OT 25319-05.06.2015	TCLP	Solid	6010B	161977
600-111073-2 MS	OT 25319-05.06.2015	TCLP	Solid	6010B	161977
600-111073-3	OT 25134-05.06.2015	TCLP	Solid	6010B	161977
600-111073-3 MS	OT 25134-05.06.2015	TCLP	Solid	6010B	161977
LB 600-161929/1-B	Method Blank	TCLP	Solid	6010B	161977
LB 600-161930/1-B	Method Blank	TCLP	Solid	6010B	161977
LB 600-162014/1-B	Method Blank	TCLP	Water	6010B	162094
LCS 600-161977/2-A	Lab Control Sample	Total/NA	Solid	6010B	161977
LCS 600-162094/2-A	Lab Control Sample	Total/NA	Water	6010B	162094
MB 600-161977/1-A	Method Blank	Total/NA	Solid	6010B	161977
MB 600-162094/1-A	Method Blank	Total/NA	Water	6010B	162094

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Metals (Continued)

Prep Batch: 247638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	3010A	
LCS 490-247638/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-247638/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-247638/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 247644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	3051A	
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	3051A	
LCS 490-247644/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 490-247644/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
MB 490-247644/1-A	Method Blank	Total/NA	Solid	3051A	

Analysis Batch: 247796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	6010B	
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	6010B	
LCS 490-247644/2-A	Lab Control Sample	Total/NA	Solid	6010B	
LCSD 490-247644/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	
MB 490-247644/1-A	Method Blank	Total/NA	Solid	6010B	

Analysis Batch: 248081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	6010B	
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	6010B	
LCS 490-247638/2-A	Lab Control Sample	Total/NA	Water	6010B	
LCSD 490-247638/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	
MB 490-247638/1-A	Method Blank	Total/NA	Water	6010B	

General Chemistry

Analysis Batch: 115796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	D1796	

Prep Batch: 161910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	7.3.4	
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	7.3.4	
LCS 600-161910/2-A	Lab Control Sample	Total/NA	Solid	7.3.4	
LCS 600-161910/3-A	Lab Control Sample	Total/NA	Solid	7.3.4	
MB 600-161910/1-A	Method Blank	Total/NA	Solid	7.3.4	

Analysis Batch: 161933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	9012	
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	9012	
LCS 600-161910/2-A	Lab Control Sample	Total/NA	Solid	9012	
MB 600-161910/1-A	Method Blank	Total/NA	Solid	9012	

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

General Chemistry (Continued)

Analysis Batch: 161936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	7.4.4	161910
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	7.4.4	161910
LCS 600-161910/3-A	Lab Control Sample	Total/NA	Solid	7.4.4	161910
MB 600-161910/1-A	Method Blank	Total/NA	Solid	7.4.4	161910

Analysis Batch: 162027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	SM 2540D	8
LCS 600-162027/2	Lab Control Sample	Total/NA	Water	SM 2540D	9
MB 600-162027/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 162110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	SW846 Ch. 7	11
600-111073-1 DU	FT 5180-05.06.2015	Total/NA	Water	SW846 Ch. 7	12
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	D92	
600-111073-2 DU	OT 25319-05.06.2015	Total/NA	Solid	D92	
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	D92	
LCS 600-162110/2	Lab Control Sample	Total/NA	Water	SW846 Ch. 7	13
MB 600-162110/1	Method Blank	Total/NA	Water	SW846 Ch. 7	14

Prep Batch: 162292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	7.3.4	
LCS 600-162292/2-A ^20	Lab Control Sample	Total/NA	Water	7.3.4	
LCS 600-162292/3-A	Lab Control Sample	Total/NA	Water	7.3.4	
MB 600-162292/1-A	Method Blank	Total/NA	Water	7.3.4	

Analysis Batch: 162306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	D240-87	
600-111073-1 DU	FT 5180-05.06.2015	Total/NA	Water	D240-87	
LCS 600-162306/2	Lab Control Sample	Total/NA	Water	D240-87	
MB 600-162306/1	Method Blank	Total/NA	Water	D240-87	

Analysis Batch: 162308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	9040B	
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	9045C	
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	9045C	
LCS 600-162308/1	Lab Control Sample	Total/NA	Solid	9045C	

Analysis Batch: 162366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	9012	162292
LCS 600-162292/2-A ^20	Lab Control Sample	Total/NA	Water	9012	162292
MB 600-162292/1-A	Method Blank	Total/NA	Water	9012	162292

Analysis Batch: 162373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	7.4.4	162292

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

General Chemistry (Continued)

Analysis Batch: 162373 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-162292/3-A	Lab Control Sample	Total/NA	Water	7.4.4	162292
MB 600-162292/1-A	Method Blank	Total/NA	Water	7.4.4	162292

Prep Batch: 180312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	9023	180312
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	9023	180312
LCS 240-180312/4-A	Lab Control Sample	Total/NA	Solid	9023	180312
MB 240-180312/3-A	Method Blank	Total/NA	Solid	9023	180312

Analysis Batch: 180440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-2	OT 25319-05.06.2015	Total/NA	Solid	9023	180312
600-111073-3	OT 25134-05.06.2015	Total/NA	Solid	9023	180312
LCS 240-180312/4-A	Lab Control Sample	Total/NA	Solid	9023	180312
MB 240-180312/3-A	Method Blank	Total/NA	Solid	9023	180312

Analysis Batch: 247715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-111073-1	FT 5180-05.06.2015	Total/NA	Water	9020B	180312
LCS 490-247715/4	Lab Control Sample	Total/NA	Water	9020B	180312
LCSD 490-247715/5	Lab Control Sample Dup	Total/NA	Water	9020B	180312
MB 490-247715/6	Method Blank	Total/NA	Water	9020B	180312

Lab Chronicle

Client: CB&I Federal Services LLC
 Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: FT 5180-05.06.2015

Lab Sample ID: 600-111073-1

Matrix: Water

Date Collected: 05/06/15 13:46

Date Received: 05/06/15 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	141468	05/13/15 14:08	SLM	TAL PIT
TCLP	Analysis	8260B		1	0.125 mL	5 mL	141386	05/13/15 14:48	PJJ	TAL PIT
Total/NA	Analysis	8260B		5	5 mL	5 mL	257275	05/15/15 13:54	WPD	TAL PEN
TCLP	Leach	1311			1.0 g	1.0 mL	162014	05/08/15 16:45	RT1	TAL HOU
TCLP	Prep	3510C			200 mL	1.0 mL	162046	05/11/15 14:04	SMB	TAL HOU
TCLP	Analysis	8270C		1	200 mL	1.0 mL	162230	05/13/15 14:24	KP1	TAL HOU
Total/NA	Prep	3510C			250 mL	1.0 mL	162047	05/11/15 08:16	SMB	TAL HOU
Total/NA	Analysis	8270C		5	250 mL	1.0 mL	162142	05/12/15 17:16	KP1	TAL HOU
Total/NA	Prep	TX_1005_W_Prep			35.48 mL	3.00 mL	161978	05/08/15 12:04	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1	35.48 mL	3.00 mL	161985	05/11/15 08:23	RJV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	162014	05/08/15 16:45	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	162094	05/11/15 13:12	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	162205	05/12/15 15:21	DCL	TAL HOU
Total/NA	Prep	3010A			50 mL	50 mL	247638	05/12/15 13:09	TSC	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	248081	05/13/15 12:48	CME	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	247638	05/12/15 13:09	TSC	TAL NSH
Total/NA	Analysis	6010B		10	50 mL	50 mL	248081	05/13/15 12:53	CME	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	162014	05/08/15 16:45	RT1	TAL HOU
TCLP	Prep	7470A			4 mL	40 mL	162147	05/12/15 07:44	SCG	TAL HOU
TCLP	Analysis	7470A		1	4 mL	40 mL	162190	05/12/15 11:09	SCG	TAL HOU
Total/NA	Prep	7470A			4 mL	40 mL	162147	05/12/15 07:44	SCG	TAL HOU
Total/NA	Analysis	7470A		1	4 mL	40 mL	162190	05/12/15 11:28	SCG	TAL HOU
Total/NA	Prep	7.3.4			10 mL	250 mL	162292	05/13/15 09:40	MJB	TAL HOU
Total/NA	Analysis	7.4.4		1	10 mL	250 mL	162373	05/14/15 11:25	EAS	TAL HOU
Total/NA	Prep	7.3.4			10 mL	250 mL	162292	05/13/15 09:40	MJB	TAL HOU
Total/NA	Analysis	9012		1	10 mL	250 mL	162366	05/14/15 10:31	EAS	TAL HOU
Total/NA	Analysis	9020B		100			247715	05/13/15 16:07	JAB	TAL NSH
Total/NA	Analysis	9040B		1		50 mL	162308	05/13/15 14:30	MJB	TAL HOU
Total/NA	Analysis	D1796		1	50 mL	50 mL	115796	05/13/15 14:30	EDR	TAL CC
Total/NA	Analysis	D240-87		1			162306	05/13/15 13:15	KRD	TAL HOU
Total/NA	Analysis	SM 2540D		1	30 mL	500 mL	162027	05/09/15 08:34	EC1	TAL HOU
Total/NA	Analysis	SW846 Ch. 7		1			162110	05/11/15 11:03	MJB	TAL HOU

Client Sample ID: OT 25319-05.06.2015

Lab Sample ID: 600-111073-2

Matrix: Solid

Date Collected: 05/06/15 12:29

Date Received: 05/06/15 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	141421	05/13/15 10:31	SLM	TAL PIT
TCLP	Analysis	8260B		1	0.125 mL	5 mL	141542	05/14/15 14:22	PJJ	TAL PIT
Total/NA	Prep	5030B			4.77 g	5 mL	162025	05/09/15 13:04	WS1	TAL HOU
Total/NA	Analysis	8260B		1	4.77 g	5 mL	162021	05/09/15 18:54	WS1	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	161929	05/07/15 17:00	RT1	TAL HOU

TestAmerica Houston

Lab Chronicle

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25319-05.06.2015

Date Collected: 05/06/15 12:29

Date Received: 05/06/15 16:56

Lab Sample ID: 600-111073-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Prep	3510C			200 mL	1.0 mL	161954	05/08/15 15:09	LER	TAL HOU
TCLP	Analysis	8270C		1	200 mL	1.0 mL	162038	05/11/15 17:43	KP1	TAL HOU
Total/NA	Prep	3546			15.00 g	2.0 mL	162200	05/12/15 12:57	RLK	TAL HOU
Total/NA	Analysis	8270C		10	15.00 g	2.0 mL	162231	05/13/15 12:49	KP1	TAL HOU
Total/NA	Prep	TX_1005_S_Prep	DL		10.07 g	10.00 mL	161959	05/08/15 10:01	NVP	TAL HOU
Total/NA	Analysis	TX 1005	DL	50	10.07 g	10.00 mL	161966	05/08/15 13:05	RJV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	161929	05/07/15 17:00	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	161977	05/08/15 11:55	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	162205	05/12/15 14:04	DCL	TAL HOU
Total/NA	Prep	3051A			0.506 g	100 mL	247644	05/12/15 13:26	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	0.506 g	100 mL	247796	05/12/15 22:16	ADN	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	161929	05/07/15 17:00	RT1	TAL HOU
TCLP	Prep	7470A			4 mL	40 mL	162044	05/11/15 08:13	SCG	TAL HOU
TCLP	Analysis	7470A		1	4 mL	40 mL	162092	05/11/15 11:55	SCG	TAL HOU
Total/NA	Prep	7471A			0.63 g	50 mL	162061	05/11/15 10:12	SCG	TAL HOU
Total/NA	Analysis	7471A		1	0.63 g	50 mL	162063	05/11/15 13:51	SCG	TAL HOU
Total/NA	Prep	7.3.4			10.00 g	250 mL	161910	05/07/15 10:40	MJB	TAL HOU
Total/NA	Analysis	7.4.4		1	10.00 g	250 mL	161936	05/07/15 21:04	EAS	TAL HOU
Total/NA	Prep	7.3.4			10.00 g	250 mL	161910	05/07/15 10:40	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.00 g	250 mL	161933	05/07/15 20:58	EAS	TAL HOU
Total/NA	Prep	9023			2.00 g	10 mL	180312	05/12/15 12:37	TPH	TAL CAN
Total/NA	Analysis	9023		1	2.00 g	10 mL	180440	05/12/15 13:08	TPH	TAL CAN
Total/NA	Analysis	9045C		1		20 mL	162308	05/13/15 14:30	MJB	TAL HOU
Total/NA	Analysis	D92		1			162110	05/11/15 11:03	MJB	TAL HOU

Client Sample ID: OT 25134-05.06.2015

Date Collected: 05/06/15 12:50

Date Received: 05/06/15 16:56

Lab Sample ID: 600-111073-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			25.00 g	500 mL	141421	05/13/15 10:31	SLM	TAL PIT
TCLP	Analysis	8260B		1	0.125 mL	5 mL	141542	05/14/15 14:49	PJJ	TAL PIT
Total/NA	Prep	5030B			4 g	10 mL	161916	05/07/15 15:00	KLV	TAL HOU
Total/NA	Analysis	8260B		10	4 g	10 mL	161757	05/07/15 18:56	DT1	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	161930	05/07/15 17:00	RT1	TAL HOU
TCLP	Prep	3510C			200 mL	1.0 mL	161954	05/08/15 15:09	LER	TAL HOU
TCLP	Analysis	8270C		1	200 mL	1.0 mL	162035	05/11/15 18:10	KP1	TAL HOU
Total/NA	Prep	3546			5.06 g	5.0 mL	162200	05/12/15 12:57	RLK	TAL HOU
Total/NA	Analysis	8270C		10	5.06 g	5.0 mL	162231	05/13/15 13:23	KP1	TAL HOU
Total/NA	Prep	TX_1005_S_Prep	DL		10.00 g	10.00 mL	161959	05/08/15 10:01	NVP	TAL HOU
Total/NA	Analysis	TX 1005	DL	50	10.00 g	10.00 mL	161966	05/08/15 13:38	RJV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	161930	05/07/15 17:00	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	161977	05/08/15 11:55	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	162205	05/12/15 14:11	DCL	TAL HOU

TestAmerica Houston

Lab Chronicle

Client: CB&I Federal Services LLC
 Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Client Sample ID: OT 25134-05.06.2015

Lab Sample ID: 600-111073-3

Date Collected: 05/06/15 12:50

Matrix: Solid

Date Received: 05/06/15 16:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			0.509 g	100 mL	247644	05/12/15 13:26	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	0.509 g	100 mL	247796	05/12/15 22:21	ADN	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	161930	05/07/15 17:00	RT1	TAL HOU
TCLP	Prep	7470A			4 mL	40 mL	162044	05/11/15 08:13	SCG	TAL HOU
TCLP	Analysis	7470A		1	4 mL	40 mL	162092	05/11/15 12:03	SCG	TAL HOU
Total/NA	Prep	7471A			0.60 g	50 mL	162061	05/11/15 10:12	SCG	TAL HOU
Total/NA	Analysis	7471A		10	0.60 g	50 mL	162063	05/11/15 13:58	SCG	TAL HOU
Total/NA	Prep	7.3.4			10.05 g	250 mL	161910	05/07/15 10:40	MJB	TAL HOU
Total/NA	Analysis	7.4.4		1	10.05 g	250 mL	161936	05/07/15 21:04	EAS	TAL HOU
Total/NA	Prep	7.3.4			10.05 g	250 mL	161910	05/07/15 10:40	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.05 g	250 mL	161933	05/07/15 20:58	EAS	TAL HOU
Total/NA	Prep	9023			2.03 g	10 mL	180312	05/12/15 12:37	TPH	TAL CAN
Total/NA	Analysis	9023		1	2.03 g	10 mL	180440	05/12/15 13:26	TPH	TAL CAN
Total/NA	Analysis	9045C			1	20 mL	162308	05/13/15 14:30	MJB	TAL HOU
Total/NA	Analysis	D92		1			162110	05/11/15 11:03	MJB	TAL HOU

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Certification Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Laboratory: TestAmerica Houston

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704223	10-31-15
The following analytes are included in this report, but certification is not offered by the governing authority:				
Analysis Method	Prep Method	Matrix	Analyte	
7.4.4	7.3.4	Solid	Sulfide, Reactive	
7.4.4	7.3.4	Water	Sulfide, Reactive	
8260B	5030B	Solid	1,2-Dichloroethene, Total	
8270C	3510C	Water	3 & 4 Methylphenol	
9012	7.3.4	Solid	Cyanide, Reactive	
9012	7.3.4	Water	Cyanide, Reactive	
D240-87		Water	BTU	
D92		Solid	Flashpoint	
TX 1005	TX_1005_S_Prep	Solid	>C12-C28	
TX 1005	TX_1005_S_Prep	Solid	>C28-C35	
TX 1005	TX_1005_S_Prep	Solid	C6-C12	
TX 1005	TX_1005_W_Prep	Water	>C12-C28	
TX 1005	TX_1005_W_Prep	Water	>C28-C35	
TX 1005	TX_1005_W_Prep	Water	C6-C12	

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15 *
Georgia	State Program	4	N/A	06-30-15 *
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	05-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15 *
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15 *
New York	NELAP	2	10975	03-31-16 *
Ohio VAP	State Program	5	CL0024	10-31-15
Oregon	NELAP	10	4062	02-23-16
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Corpus Christi

The certifications listed below are applicable to this report.

* Certification renewal pending - certification considered valid.

TestAmerica Houston

Certification Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Laboratory: TestAmerica Corpus Christi (Continued)

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704210	03-31-16

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704077	08-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6010B	3010A	Water	Sulfur
6010B	3051A	Solid	Sulfur

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-15
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-15
Florida	NELAP	4	E81010	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200041	10-09-15
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	05-31-15 *
Kentucky (UST)	State Program	4	53	06-30-15
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-15
Maryland	State Program	3	233	09-30-15
Massachusetts	State Program	1	M-FL094	06-30-15
Michigan	State Program	5	9912	06-30-15
New Jersey	NELAP	2	FL006	06-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-15
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15
Tennessee	State Program	4	TN02907	06-30-15
Texas	NELAP	6	T104704286-12-5	09-30-15
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-15
West Virginia DEP	State Program	3	136	06-30-15

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-15
California	State Program	9	2891	03-31-16
Connecticut	State Program	1	PH-0688	09-30-16
Florida	NELAP	4	E871008	06-30-15
Illinois	NELAP	5	002602	06-30-15

* Certification renewal pending - certification considered valid.

TestAmerica Houston

Certification Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . . Houston

TestAmerica Job ID: 600-111073-1

Laboratory: TestAmerica Pittsburgh (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Kansas	NELAP	7	E-10350	05-31-15 *
Louisiana	NELAP	6	04041	06-30-15
New Hampshire	NELAP	1	203011	04-04-16
New Jersey	NELAP	2	PA005	06-30-15
New York	NELAP	2	11182	03-31-16
North Carolina (WW/SW)	State Program	4	434	12-31-15
Pennsylvania	NELAP	3	02-00416	04-30-16
South Carolina	State Program	4	89014	04-30-15 *
Texas	NELAP	6	T104704528	03-31-16
US Fish & Wildlife	Federal		LE94312A-1	11-30-15
USDA	Federal		P-Soil-01	05-23-16
Utah	NELAP	8	STLP	05-31-15
Virginia	NELAP	3	460189	09-14-15
West Virginia DEP	State Program	3	142	01-31-16
Wisconsin	State Program	5	998027800	08-31-15

* Certification renewal pending - certification considered valid.

אנו בראתך נזקן

TestAmerica
228239
THE LEADER IN ENVIRONMENTAL TESTING

THE LEADER IN ENVIRONMENTAL TESTING

Custody Seal

DATE

SIGNATURE
5
DATE

CEA-188-VCE-01

TestAmerica

228239

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
228238

228238

36x3 Vials w/ Head Space > 6mm.
dry sample. chiu in progress

COMMENTS:

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

VOA headspace acceptable (5-6m): YES NO NA

LABORATORY PRESERVATION OF SAMPLES REQUIRED: NO YES
Base samples are > pH 12: YES NO Acid preserved are < pH 2: YES NO

Samples received on ice? YES NO

CF = correction factor

Custody Seal Present: YES NO

UNPACKED BY:

JOB NUMBER:

JOB NUMBER:

Date/Time Received:

11073

THE LEADER IN ENVIRONMENTAL TESTING

Sample Receipt Checklist

TestAmerica Houston

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-111073-1

Login Number: 111073

List Source: TestAmerica Houston

List Number: 1

Creator: Capps, Dana R

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	True		7
Sample custody seals, if present, are intact.	True		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	True		10
Cooler Temperature is acceptable.	False	Received same day of collection; chilling process has begun.	11
Cooler Temperature is recorded.	True	24.9	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time.	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with accpt. headspace	
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A	Check done at department level as required.	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-111073-1

Login Number: 111073

List Source: TestAmerica Corpus Christi

List Number: 5

List Creation: 05/12/15 12:40 PM

Creator: Contreras, Kristen N

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-111073-1

Login Number: 111073

List Source: TestAmerica Nashville

List Number: 2

List Creation: 05/12/15 10:14 AM

Creator: Gambill, Shane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-111073-1

Login Number: 111073

List Source: TestAmerica Nashville

List Number: 3

List Creation: 05/12/15 10:15 AM

Creator: Gambill, Shane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Not requested on COC.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-111073-1

Login Number: 111073

List Source: TestAmerica Pensacola

List Number: 6

List Creation: 05/13/15 06:14 PM

Creator: Perez, Trina M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-111073-1

Login Number: 111073

List Number: 4

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 05/12/15 12:46 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	